

sun louvres

By Louvretec



END FIXED SUN LOUVRES

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SUN LOUVRES END FIXED GALLERY



1. END FIXED 200MM MAXI LOUVRE VERTICAL PANEL 2. END FIXED 90MM MIDI LOUVRES AS EYEBROW 3. END FIXED 180MM AIRFOIL LOUVE PANEL

4. END FIXED 120MM AIRFOIL PANEL

5. END FIXED 300MM MAXI LOUVRES

APPLICATION OVERVIEW END FIXED OPTIONS FOR SUN LOUVRES

END FIXED SUN LOUVRES

Fix blades Vertically or Horizontally

All Louvretec sun louvres can be End Fixed and all have internal screw fixing ports which allow the blades to be end fixed, set at any pitch and any centre.

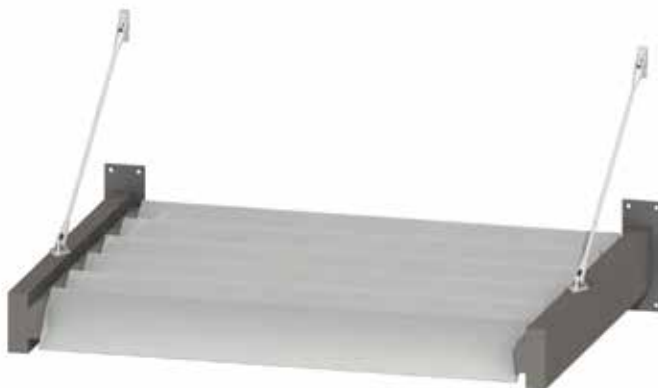
As a rule of thumb blade centres are generally fixed at between 75% - 100% of the blade width.



VERTICAL PANEL END FIXED - HORIZONTAL LOUVRES

VERTICAL PANELS END FIXED

- All Louvretec sun louvres have internal screw fixing ports. This enables the blades to be;
 - set at any angle or pitch (blade pitch)
 - set at any centre (blade centre)
- As a rule of thumb, blade centres are fixed at;
 - between 75% - 100% of their width.
eg: 180mm Airfoil would have a centre between 135mm - 180mm.
- Blade pitch is an equally important consideration in determining the degree of light, shade, privacy and shelter.



OVERHEAD PANEL END FIXED - HORIZONTAL LOUVRES

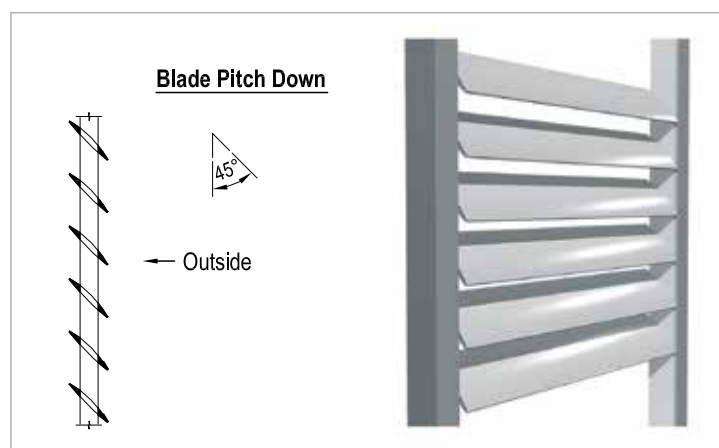
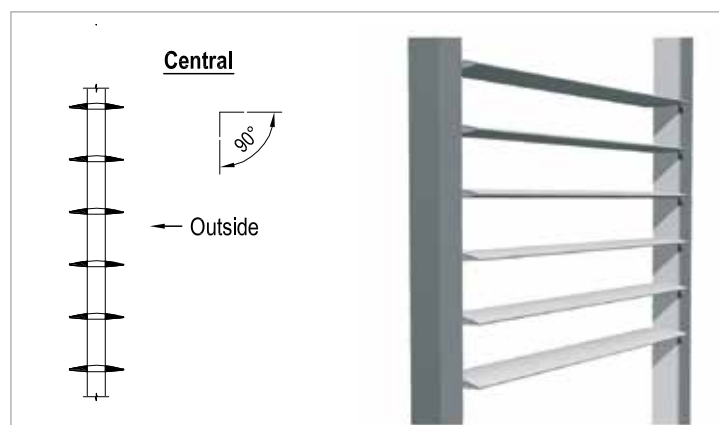
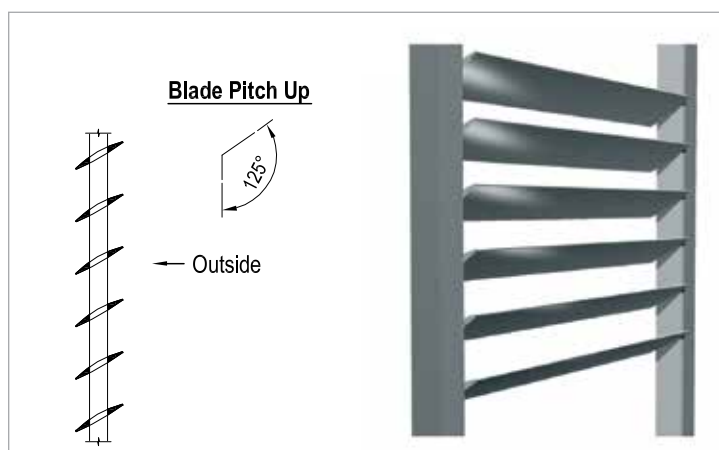
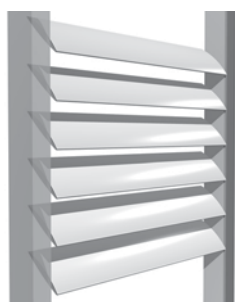
OVERHEAD PANELS END FIXED

- Horizontal or Overhead louvres may fit within an existing opening or as illustrated may require a separate structural sub-frame.
- Sub-frames are typically aluminium or steel and usually require specific engineering details.
- Louvretec specialises in the supply and installation of aluminium structural sub-frames.
- Please contact Louvretec for further details.

VERTICAL PANELS END FIXED INFILLS

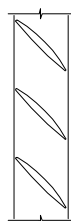
How the system works

- Blades can be set to any pitch or centre
- Three typical options are shown:
 - Blade Pitch Up
 - Central
 - Blade Pitch Down
- All Louvretec sun louvres have internal screw fixing ports. This enables the blades to be;
 - set at any angle or pitch (blade pitch)
 - set at any centre (blade centre)
- As a rule of thumb, blade centres are fixed at between 75% to 100% of their width.
eg: 180mm Airfoil would have a centre between 135mm to 180mm.
- Blade pitch is an equally important consideration in determining the degree of light, shade, privacy and shelter.



LOUVRE BLADES IN RELATION TO FRAME

- 1. Louvres fit outside of frame, End Caps required
- 2. Louvres fit within frame, End Caps required

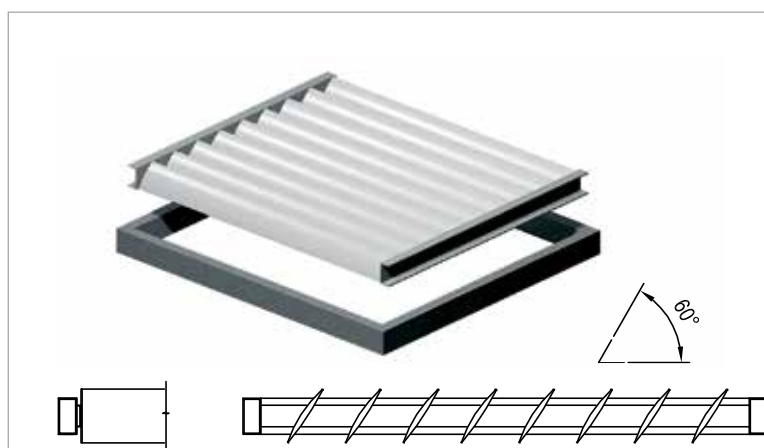
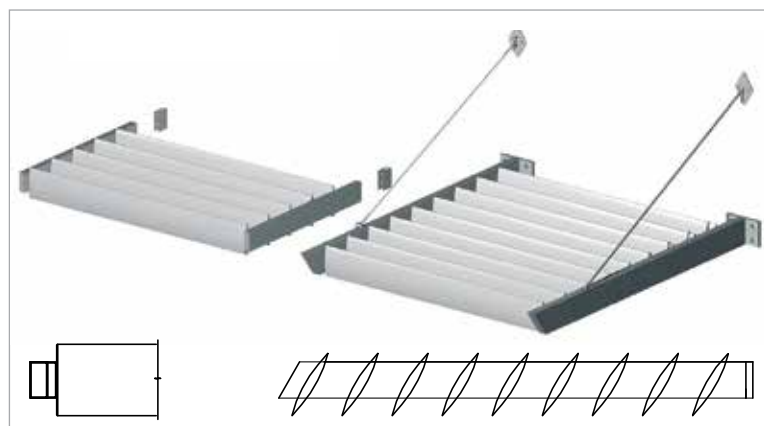
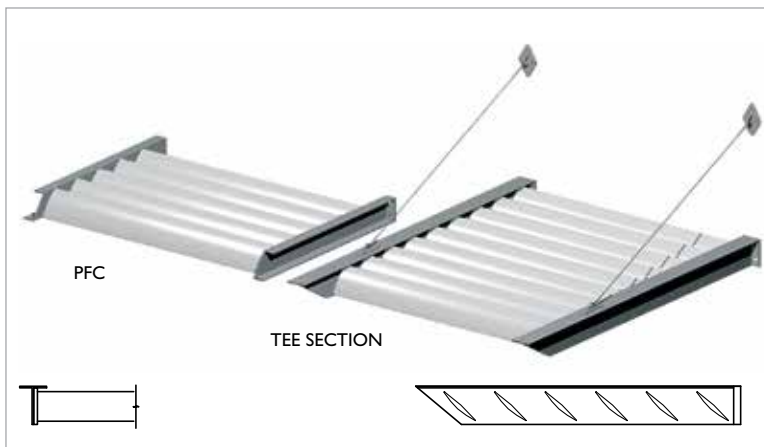


APPLICATION OVERHEAD PANELS WITH END FIXED INFILLS

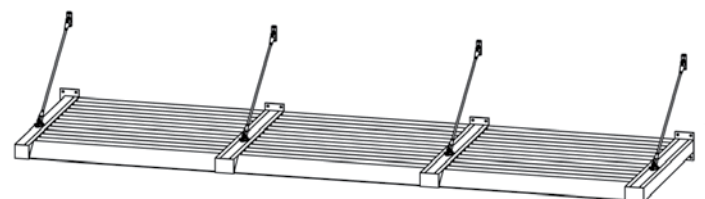
OVERHEAD PANELS
END FIXED INFILLS

How the system works

- Horizontal or Overhead louvres may fit within an existing opening or as illustrated may require a separate structural sub-frame.
- Sub-frames are typically aluminium or steel and usually require specific engineering details.
- Engineering is usually also required for the fixing details to the building.



- Louvrectec specialises in the supply and installation of aluminium structural sub-frames.



- All louvre panels shown can be joined to create one continuous panel.

APPLICATION OVERVIEW GROUPED END FIXED LOUVRES AT GLANCE

MINIMUM - MAXIMUM BLADE SPANS AT A GLANCE AS DETERMINED BY WIND SPEED. REFER TO SECTION 13 ENGINEERING REPORTS FOR FULL DETAILS ON BLADE SPANS.

EXTRA HIGH WIND
SPEED 198KM/H 55M/S

































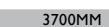


LOW WIND SPEED
115KM/H 32M/S



THE LOUVRETEC RANGE OF END FIXED SUN LOUVRES

6 Groups of Sun Louvres. All Louvretec Sun Louvres can be End Fixed
IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER.
WE'RE FOCUSED TO MEETING YOUR NEEDS WITH TAILORED SOLUTIONS.

GROUP	LOUVRE	MAXIMUM SPANS
END FIXED GROUP 1	 90 MIDI LOUVRE	1400MM  2000MM 
	 95 BELLA VISTA	1450MM  2100MM 
	 95 BELLA VISTA HEAVY	1900MM  2800MM 
	 135 HI SPAN LOUVRE	3500MM  4400MM 
	 165 HI SPAN LOUVRE	3500MM  4500MM 
	 135 HI SPAN BALUSTRADE LOUVRE	3000MM  3000MM 
END FIXED GROUP 2	 165 HI SPAN BALUSTRADE LOUVRE	3300MM  3300MM 
	 120 AIRFOIL LOUVRE	1600MM  2300MM 
	 150 MIDI LOUVRE	1900MM  2750MM 
	 180 AIRFOIL LOUVRE	2050MM  2950MM 
	 200 MAXI LOUVRE	2350MM  3700MM 
END FIXED GROUP 3		

APPLICATION OVERVIEW GROUPED END FIXED LOUVRES AT A GLANCE

MINIMUM - MAXIMUM BLADE SPANS AT A GLANCE AS DETERMINED BY WIND SPEED. REFER TO SECTION 13 ENGINEERING REPORTS FOR FULL DETAILS ON BLADE SPANS.

EXTRA HIGH WIND
SPEED 198KM/H 55M/S




































LOW WIND SPEED
115KM/H 32M/S



THE LOUVRETEC RANGE OF END FIXED SUN LOUVRES

6 Groups of Sun Louvres. All Louvretec Sun Louvres can be End Fixed
IF A LOUVRE YOU WISH TO SPECIFY IS NOT SHOWN IN THIS SECTION PLEASE CONTACT YOUR DEALER.
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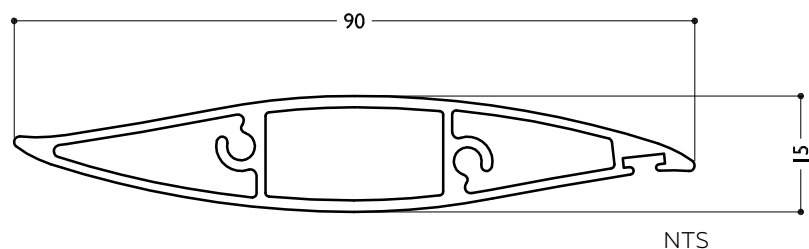
GROUP	LOUVRE	MAXIMUM SPANS
END FIXED GROUP 4	 150MM HELENA BAY	2050MM  3050MM 
	 125MM WEATHERBOARD PANEL	1750MM  4400MM 
	 180MM WEATHERBOARD PANEL	2100MM  3050MM 
END FIXED GROUP 5	 300 MAXI LOUVRE	3350MM  4800MM 
	 600 MAXI LOUVRE	3700MM  5800MM 
END FIXED GROUP 6	 RL300 MITRE LOUVRE	4050MM  5800MM 
	 RL450 MITRE LOUVRE	4050MM  5800MM 
	 RL600 MITRE LOUVRE	4050MM  5800MM 
	 RL300 SQUARE LOUVRE	4050MM  5800MM 
	 RL450 SQUARE LOUVRE	4050MM  5800MM 
	 RL600 SQUARE LOUVRE	4050MM  5800MM 

GROUP 1 LOUVRES

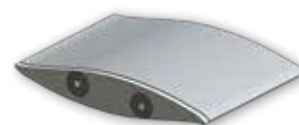
Small to Medium size louvres: 90mm Midi, 95 Bella Vista, 95 Bella Vista Heavy

90MM MIDI LOUVRE

Small to medium size



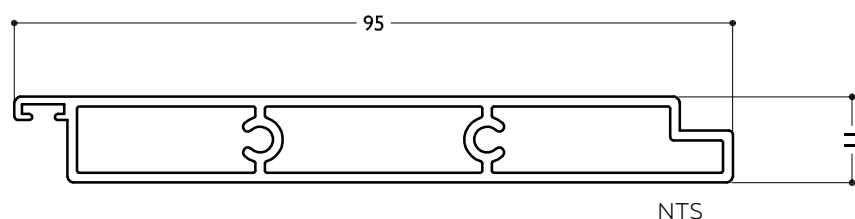
REFER TECHNICAL DETAILS PAGES 10.1.06



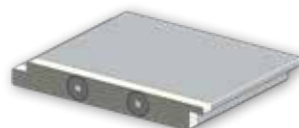
90MM MIDI LOUVRE

95MM BELLA VISTA

A rectangular option for infills



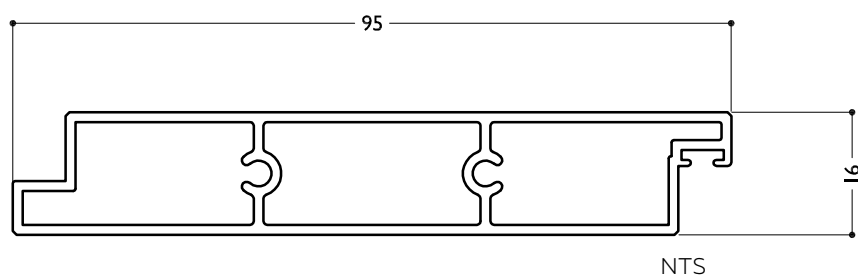
REFER TECHNICAL DETAILS PAGES 10.1.10



95MM BELLA VISTA

95MM BELLA VISTA HEAVY

Ideal for exposed locations



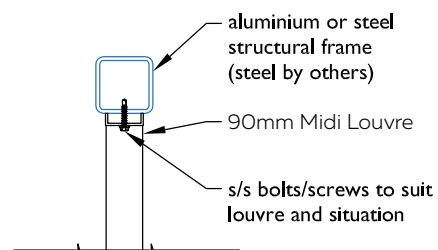
REFER TECHNICAL DETAILS PAGES 10.1.11



95MM BELLA VISTA HEAVY



VERTICAL END FIXED PANEL -
90MM MIDI HORIZONTAL LOUVRES

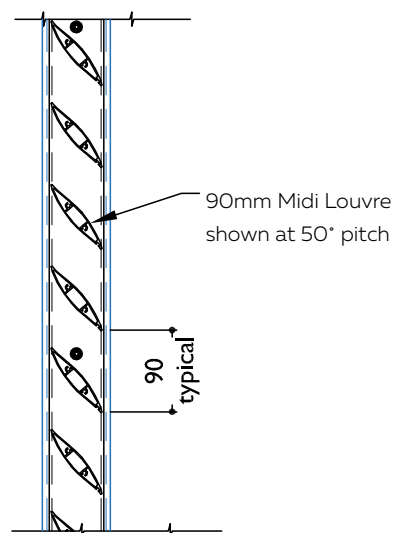


WITHIN SIDE CHANNEL
NO END CAPS REQUIRED



OVERHEAD END FIXED PANEL -
90MM MIDI HORIZONTAL LOUVRES

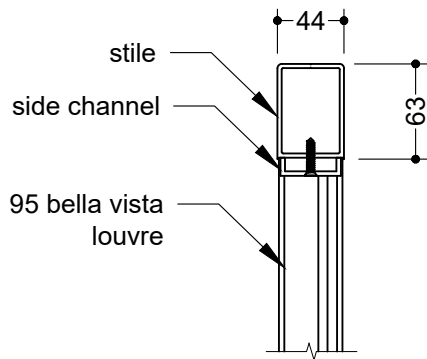
SECTION IN CHANNEL



WITHIN SIDE CHANNEL
NO END CAPS REQUIRED

TYPICAL DETAIL : END FIXED 95MM BELLA VISTA
(GROUP 1 LOUVRES COLLECTION)

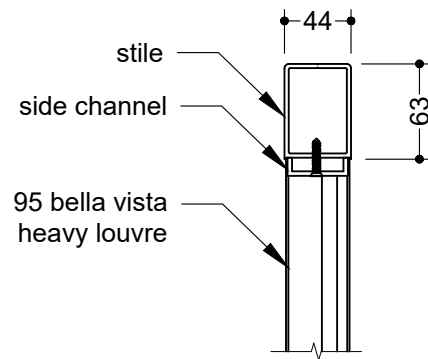
PLAN



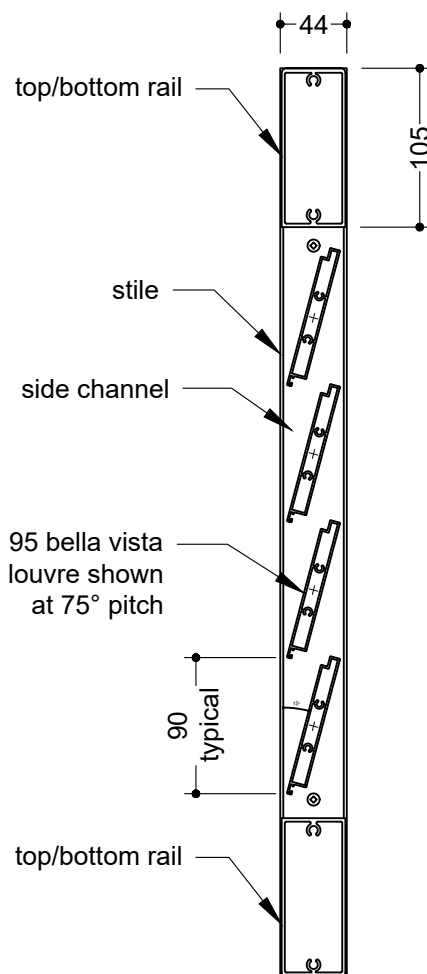
END FIXED 95MM BELLA VISTA IN DOOR PANEL

TYPICAL DETAIL: END FIXED 95MM BELLA VISTA HEAVY
(GROUP 1 LOUVRES COLLECTION)

PLAN

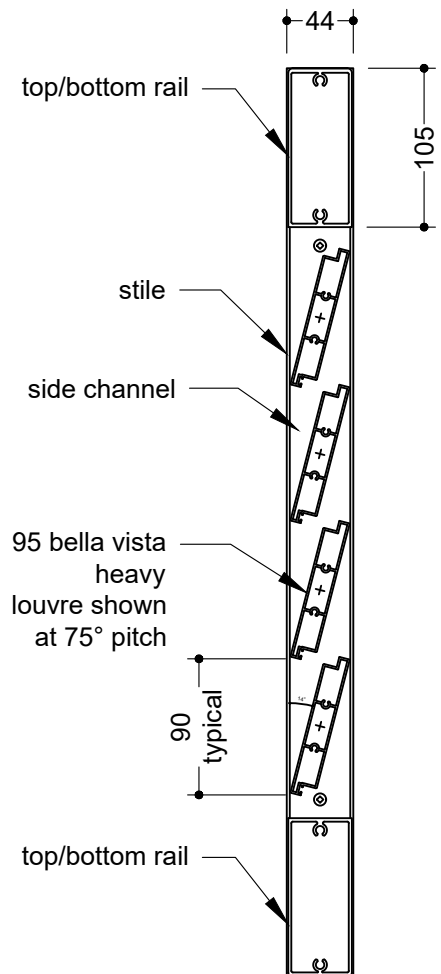


END FIXED 95MM BELLA VISTA HEAVY IN DOOR PANEL

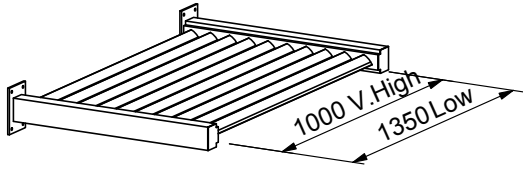


END FIXED 95MM BELLA IN DOOR PANEL

SECTION



END FIXED 95MM BELLA VISTA HEAVY IN DOOR PANEL



FREE SPAN EXAMPLE
Spans, End Fixed 90mm Midi Louvre

CALCULATIONS FOR BLADE SPANS

SHOW RANGE FROM:

Low Wind Zone 115km/h, 32m/s to

Extra High Wind Zone 198km/h, 55 m/s

Refer Engineering Details. Section 13

KEY

LF = Free span

LS15 = Strut @ 15°

LS30 = Strut @ 30°

LS45 = Strut @ 45°

Plain Column:

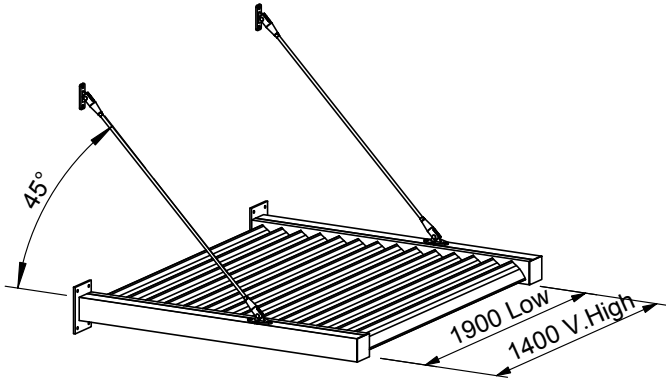
Low - Med Wind Zone.

Up to 133Km/h - 37m/s

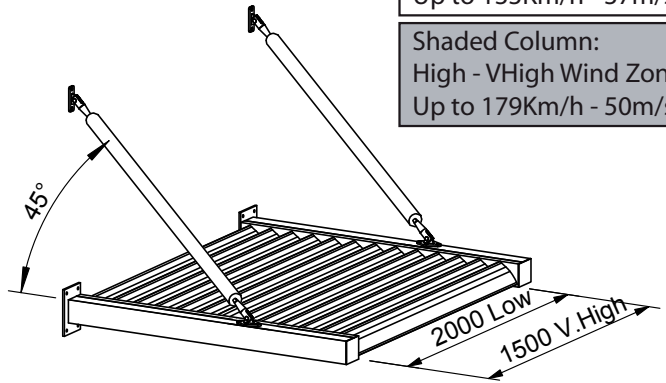
Shaded Column:

High - VHigh Wind Zone.

Up to 179Km/h - 50m/s



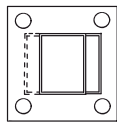
Ø20 SS STRUT SUPPORT EXAMPLE
Strut at optimum 45° angle
Spans, End Fixed 90mm Midi Louvre



Ø42 SS STRUT SUPPORT EXAMPLE
Strut at optimum 45° angle
Spans, End Fixed 90mm Midi Louvre

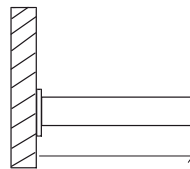
TYPICAL DETAIL: END FIXED OVERHEAD WALL STRUTS

90MM MIDI | 95MM BELLA VISTA | 95MM BELLA VISTA HEAVY (GROUP 1 LOUVRES COLLECTION)



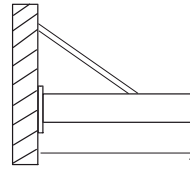
Base Plate: 100 x 150 x 6mm
Box Section: 75 x 50 x 2.5mm
Channel: 75 x 25 x 3mm

Free Span



LF	LF
700	600

Strut Support

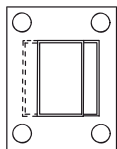


Strut Ø16mm
Stainless steel

LS15	LS15
1100	900

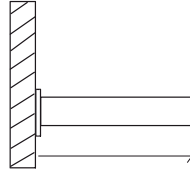
LS30	LS30
1100	1000

LS45	LS45
1300	1000



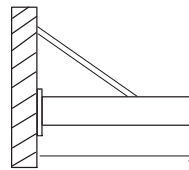
Base Plate: 100 x 225 x 6mm
Box Section: 100 x 50 x 3mm
Channel: 100 x 25 x 3mm

Free Span



LF	LF
900	800

Strut Support

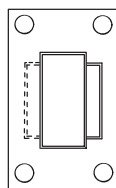


Strut Ø20mm
Stainless steel

LS15	LS15
1400	1200

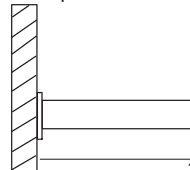
LS30	LS30
1700	1300

LS45	LS45
1700	1400



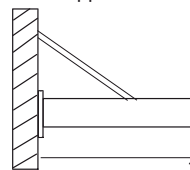
Base Plate: 100 x 275 x 6mm
Box Section: 150 x 50 x 3mm
Channel: 100 x 25 x 3mm

Free Span



LF	LF
1300	1200

Strut Support



Strut Ø42mm
Stainless steel

LS15	LS15
2000	1600

LS30	LS30
2100	1900

LS45	LS45
2300	2000

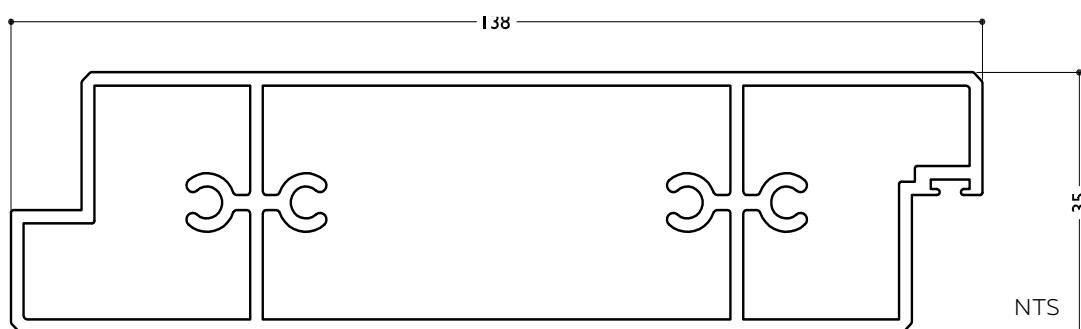
SUN LOUVRES END FIXED

GROUP 2 LOUVRES

Medium size Rectangular louvres: 135 Hi-Span, 165 Hi-Span

135MM HI-SPAN BALUSTRADE LOUVRES

Operable or end fixed balustrade louvres



REFER TECHNICAL DETAILS PAGE 10.2.38



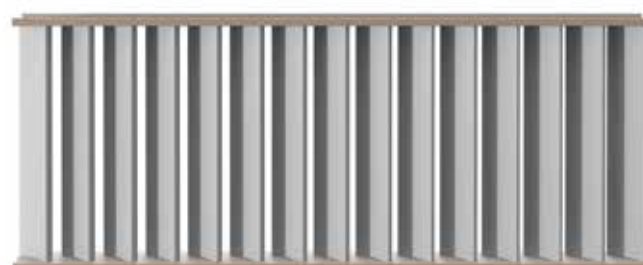
135MM HI-SPAN LOUVRE



NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM



VERTICAL END FIXED PANEL -
135MM HI-SPAN HORIZONTAL LOUVRES

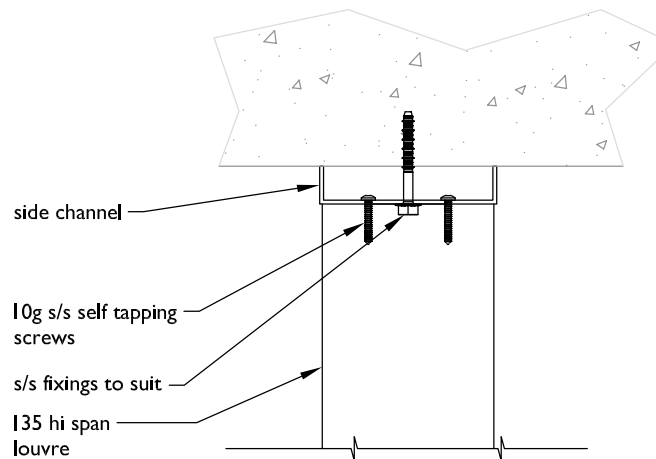


VERTICAL END FIXED PANEL
135MM HI-SPAN VERTICAL LOUVRES



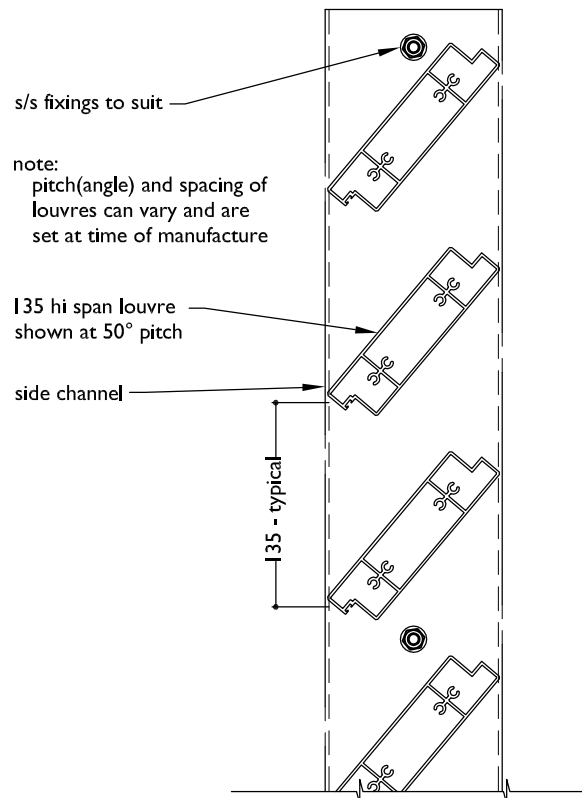
NEW ZEALAND COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

PLAN - END FIXED 135 HI-SPAN LOUVRE



END FIXED 135 HI-SPAN LOUVRE

SECTION - END FIXED 135MM HI-SPAN LOUVRE



END FIXED 135 HI-SPAN LOUVRE

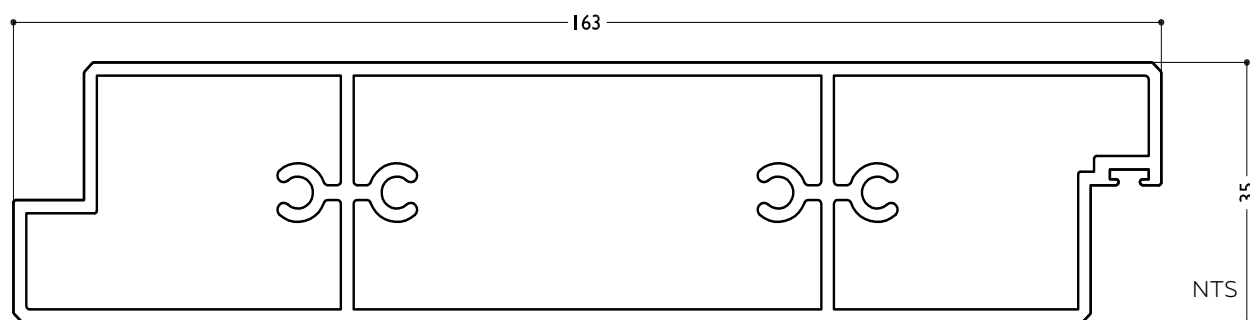
SUN LOUVRES END FIXED

GROUP 2 LOUVRES

Medium size Rectangular louvres: 135 Hi-Span, 165 Hi-Span

165MM HI-SPAN BALUSTRADE LOUVRES

Operable or end fixed balustrade louvres



REFER TECHNICAL DETAILS PAGE 10.2.42



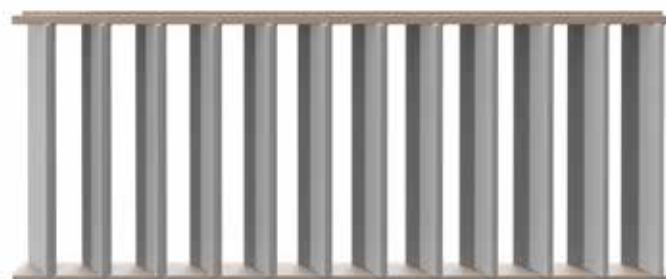
165MM HI-SPAN LOUVRE



AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM



VERTICAL END FIXED PANEL -
165MM HI-SPAN HORIZONTAL LOUVRES

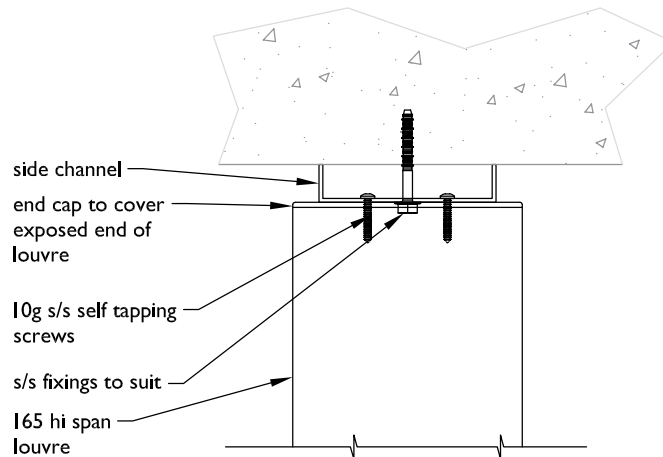


VERTICAL END FIXED PANEL -
165MM HI-SPAN VERTICAL LOUVRES



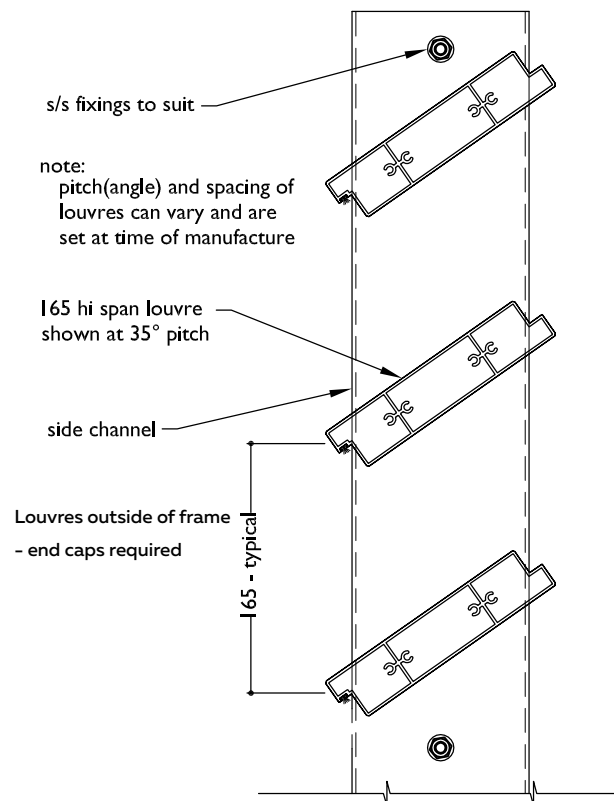
AUSTRALIAN COMPLIANT OPERABLE OR FIXED BALUSTRADE SYSTEM

PLAN - END FIXED 165 HI-SPAN



END FIXED 165 HI-SPAN LOUVRE

SECTION - END FIXED 165 HI-SPAN LOUVRE



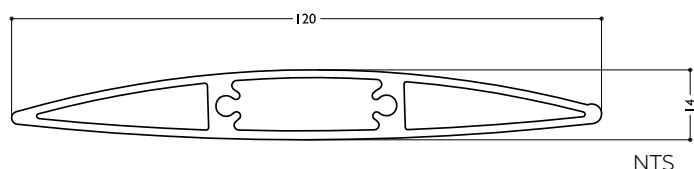
END FIXED 165 HI-SPAN LOUVRE

GROUP 3 LOUVRES

Medium size Airfoil louvres: 120mm Airfoil, 180mm Airfoil, 150 Midi, 200 Maxi

120MM AIRFOIL LOUVRE

A wide range of design applications



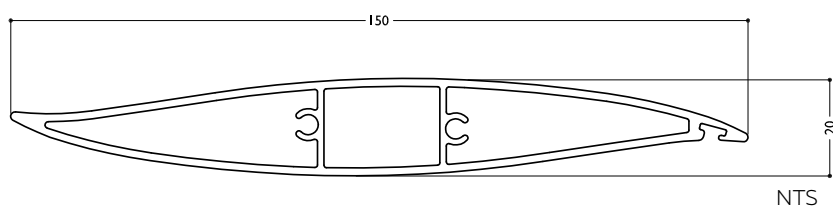
REFER TECHNICAL DETAILS PAGES 10.2.18



120MM AIRFOIL LOUVRE

150MM MIDI LOUVRE

A wave shaped louvre



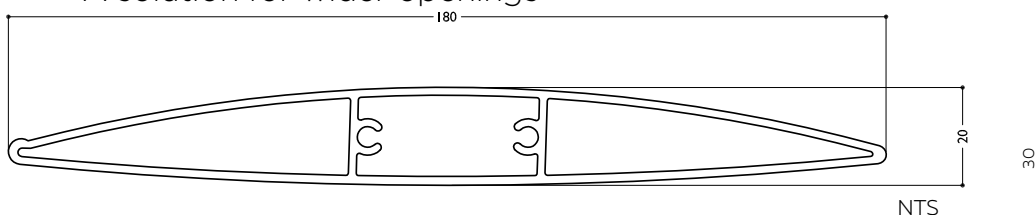
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150MM MIDI LOUVRE

180MM AIRFOIL LOUVRE

A solution for wider openings



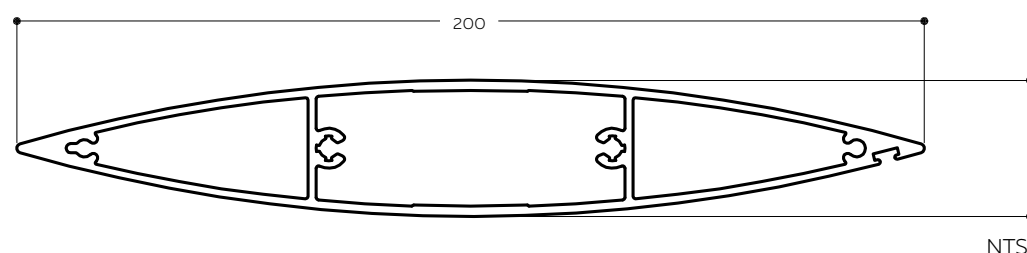
REFER TECHNICAL DETAILS PAGES 10.2.20



180MM AIRFOIL LOUVRE

200MM MAXI LOUVRE

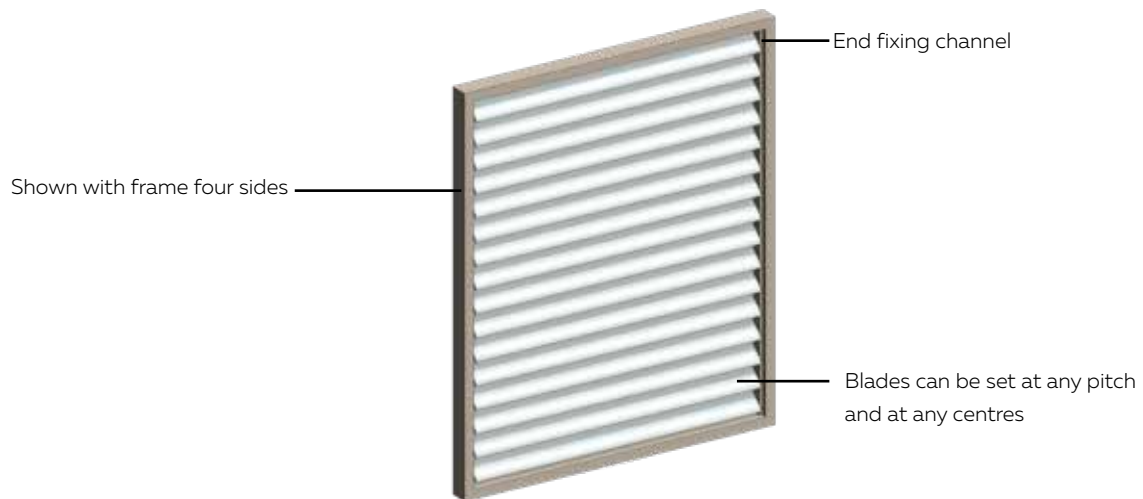
Most specified Maxi Louvre



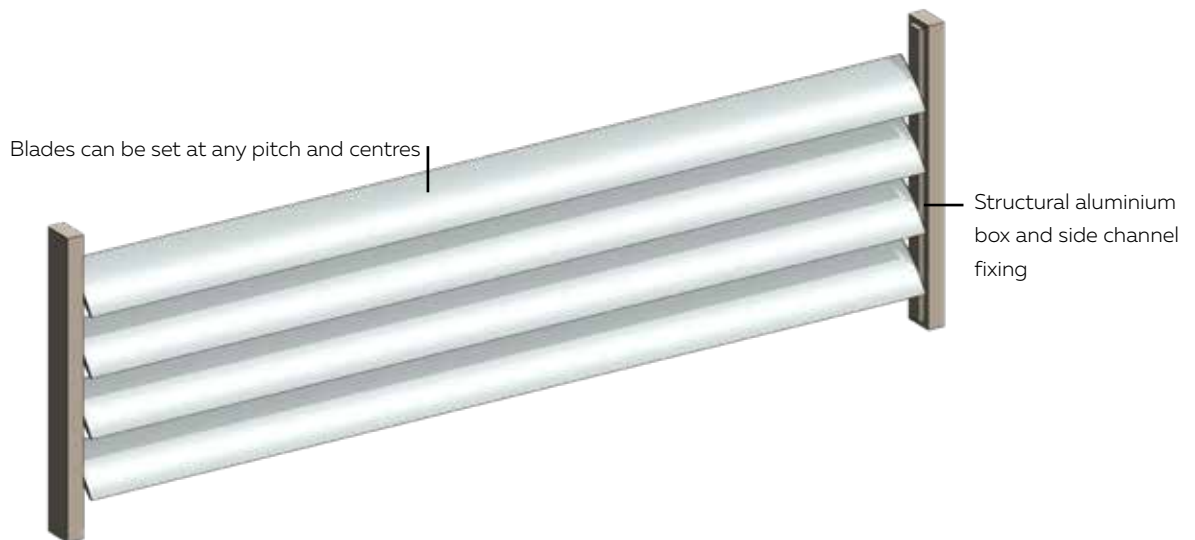
REFER TECHNICAL DETAILS PAGES 10.2.25



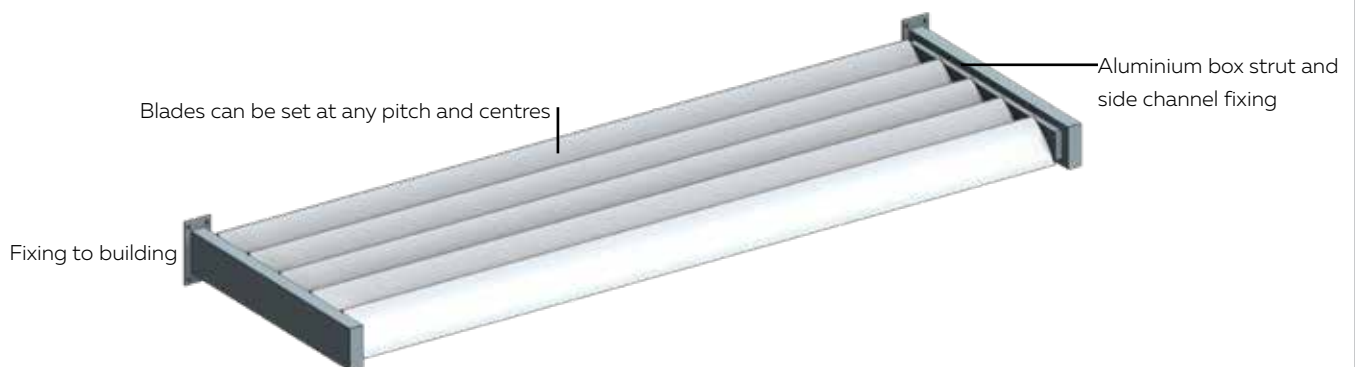
200MM AIRFOIL LOUVRE



VERTICAL END FIXED PANEL -
HORIZONTAL LOUVRES



VERTICAL END FIXED PANEL -
HORIZONTAL LOUVRES

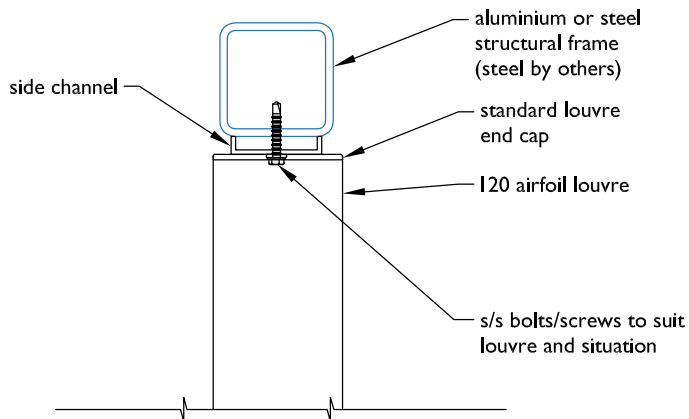


OVERHEAD END FIXED PANEL -
HORIZONTAL LOUVRES

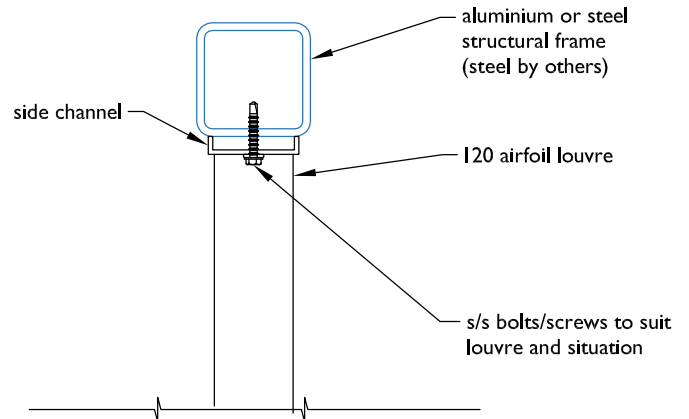
**TYPICAL DETAIL : END FIXED
120MM AIRFOIL LOUVRES**

(GROUP 3 LOUVRES COLLECTION)

PLAN - END FIXED 120MM AIRFOIL LOUVRE

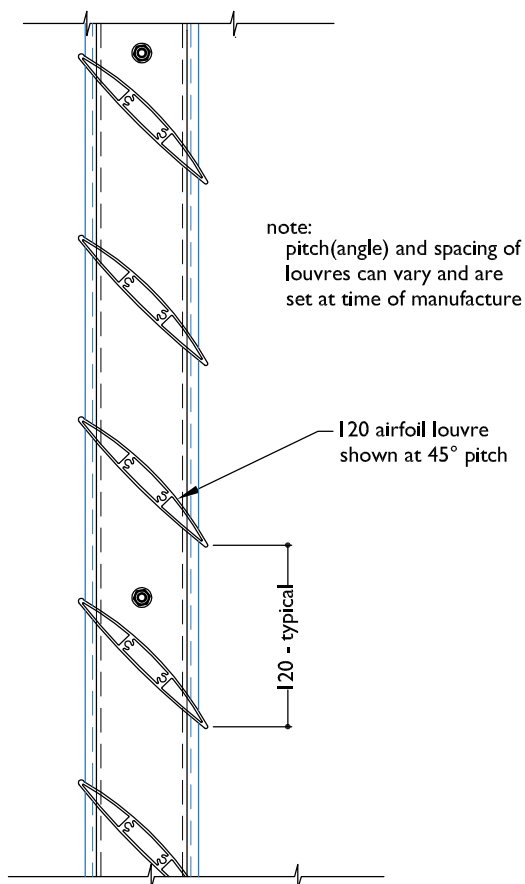


Louvres outside channel - end caps required

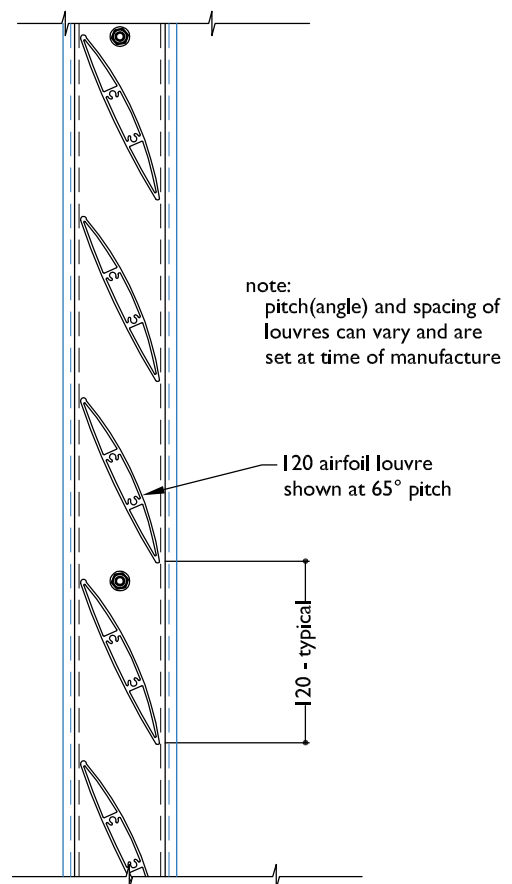


Louvres within side channel - no end caps required

SECTION - END FIXED 120MM AIRFOIL LOUVRE

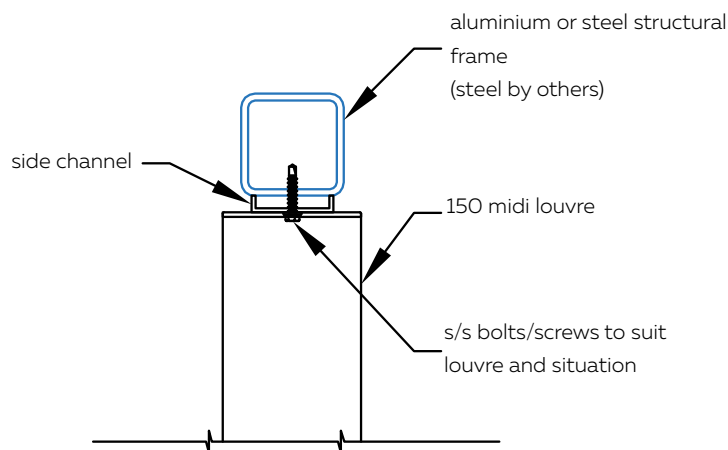


Louvres outside side channel - end caps required

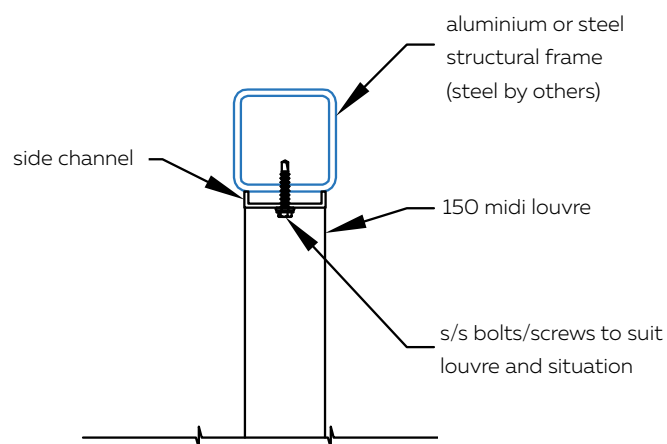


Louvres within side channel - no end caps required

PLAN - END FIXED 150MM MIDI LOUVRE

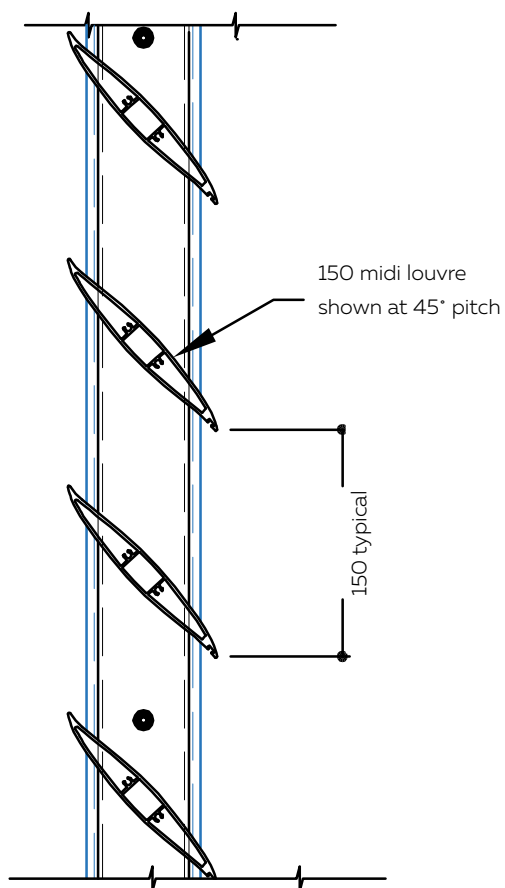


Louvres outside side channel - end caps required

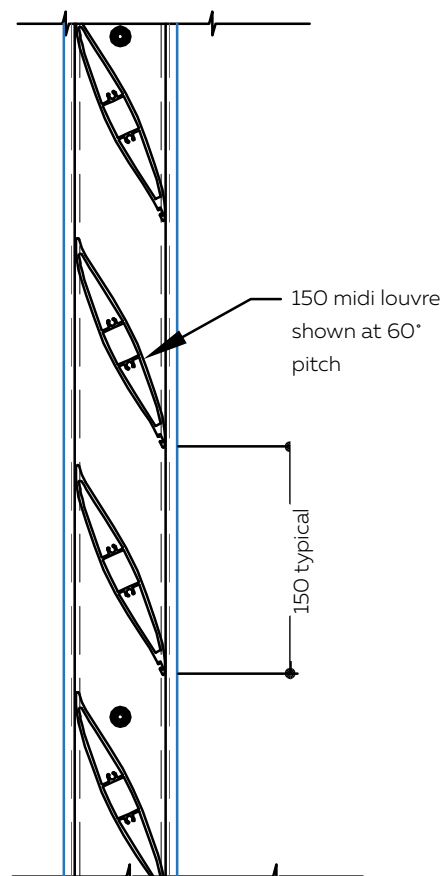


Within side channel - no end caps required

SECTION - END FIXED 150MM MIDI LOUVRE

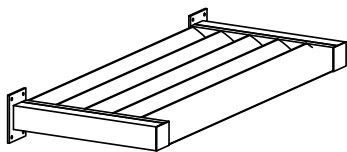


Louvres outside side channel - end caps required



Within side channel - no end caps required

TYPICAL DETAIL : END FIXED OVERHEAD SUN LOUVRES
SPANS AT A GLANCE 120MM AIRFOIL & 150MM MIDI LOUVRES (GROUP 3 LOUVRES COLLECTION)



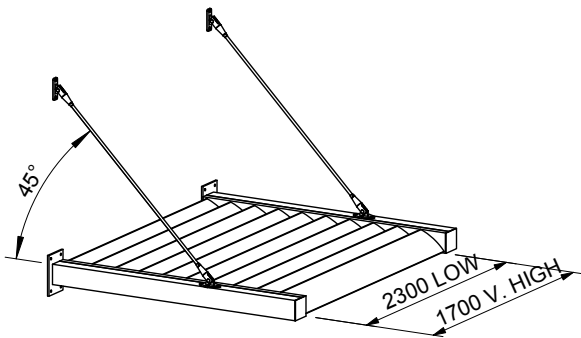
FREE SPAN EXAMPLE

CALCULATIONS FOR BLADE SPANS
SHOW RANGE FROM:
Low Wind Zone 115km/h, 32m/s to
Extra High Wind Zone 198km/h, 55 m/s
Refer Engineering Details. Section 13

KEY
LF = Free span
LS15 = Strut @ 15°
LS30 = Strut @ 30°
LS45 = Strut @ 45°

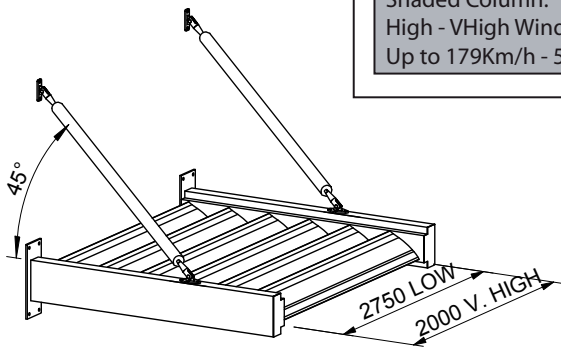
Plain Column:
Low - Med Wind Zone.
Up to 133Km/h - 37m/s

Shaded Column:
High - VHigh Wind Zone.
Up to 179Km/h - 50m/s



Ø20 SS Strut Support Example,
Strut at Optimum 45° angle.

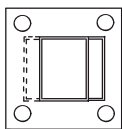
Ø20 SS STRUT SUPPORT EXAMPLE
Strut at optimum 45° angle
SPANS; END FIXED 120mm AIRFOIL LOUVRE



Ø42 SS Strut Support Example,
Strut at Optimum 45° angle.

Ø42 SS STRUT SUPPORT EXAMPLE
Strut at optimum 45° angle
SPANS; END FIXED 150mm MIDI LOUVRE

TYPICAL DETAIL: END FIXED OVERHEAD WALL STRUTS
SPANS AT A GLANCE 120MM AIRFOILS & 150MM MIDI LOUVRES (GROUP 3 LOUVRES COLLECTION)

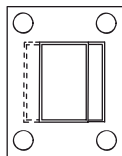


Base Plate: 100 x 150 x 6mm
Box Section: 75 x 50 x 2.5mm
Channel: 75 x 25 x 3mm

Free Span	
LF	LF
600	500

Strut Support	
Strut Ø16mm Stainless steel	

LS15	LS15
1000	800
LS30	LS30
1100	900
LS45	LS45
1100	900

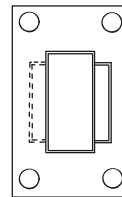


Base Plate: 100 x 225 x 6mm
Box Section: 100 x 50 x 3mm
Channel: 100 x 25 x 3mm

Free Span	
LF	LF
800	700

Strut Support	
Strut Ø20mm Stainless steel	

LS15	LS15
1200	1000
LS30	LS30
1400	1200
LS45	LS45
1500	1200



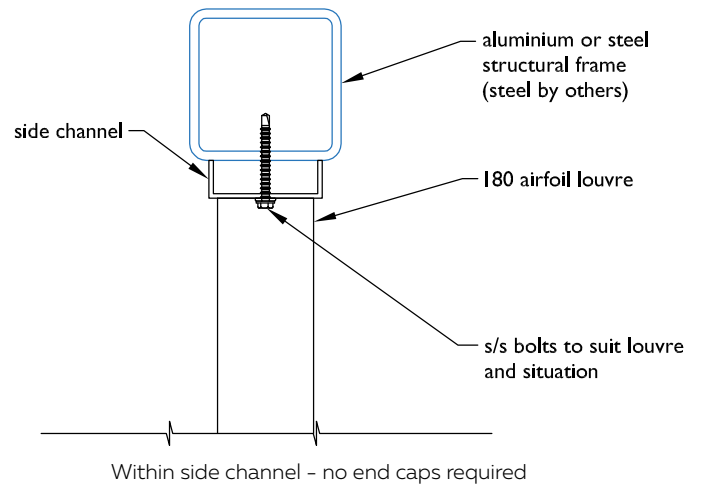
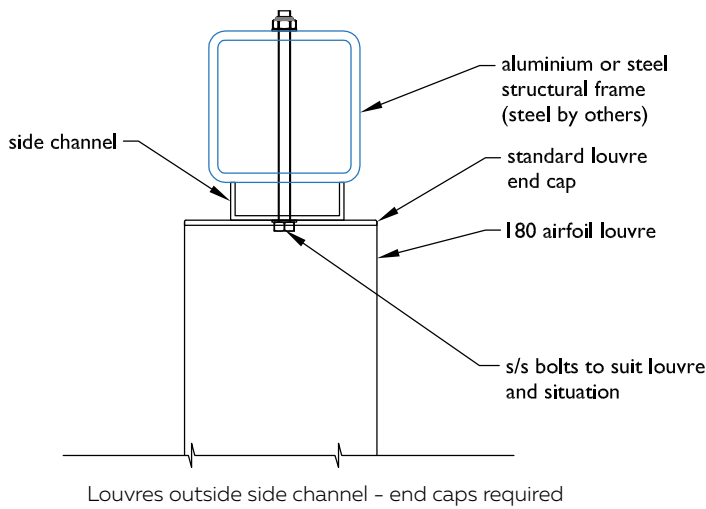
Base Plate: 100 x 275 x 6mm
Box Section: 150 x 50 x 3mm
Channel: 100 x 25 x 3mm

Free Span	
LF	LF
1200	1000

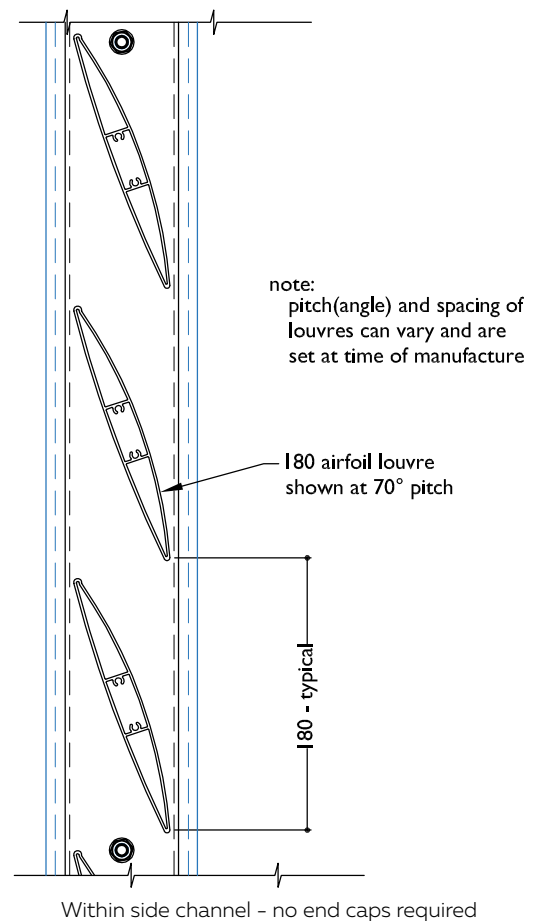
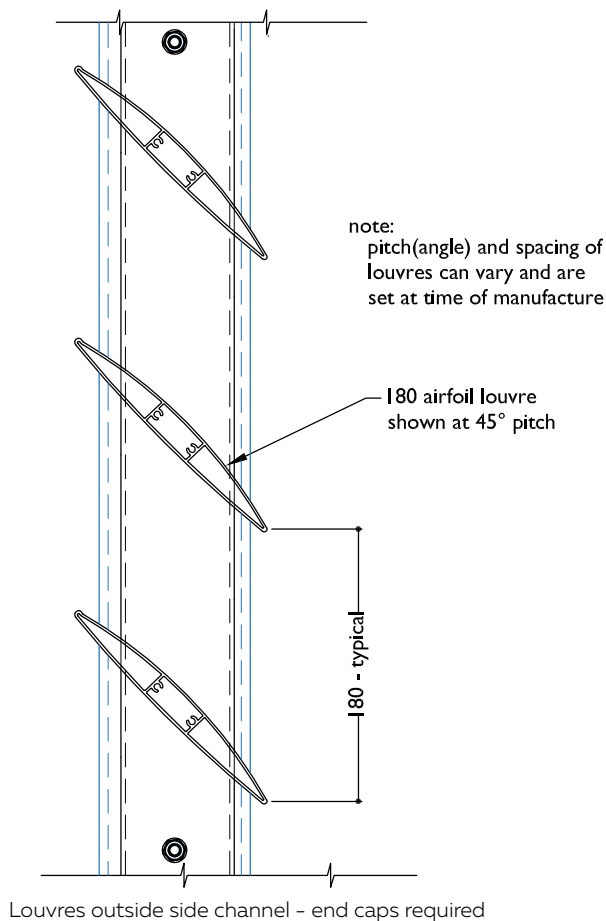
Strut Support	
Strut Ø42mm Stainless steel	

LS15	LS15
1700	1300
LS30	LS30
1800	1600
LS45	LS45
2000	1700

PLAN - END FIXED 180MM AIRFOIL LOUVRE



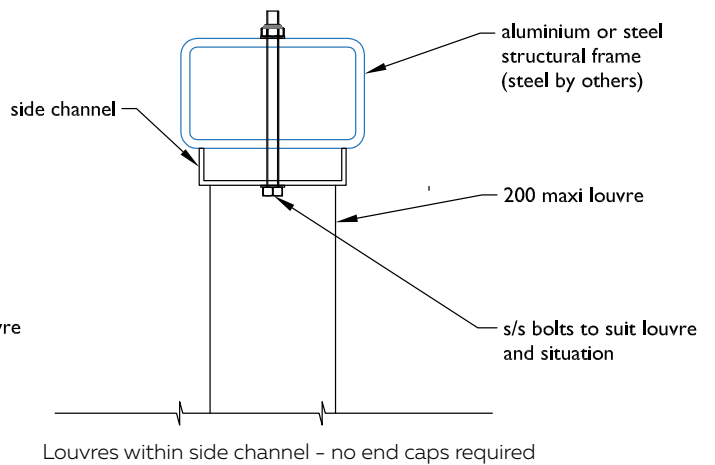
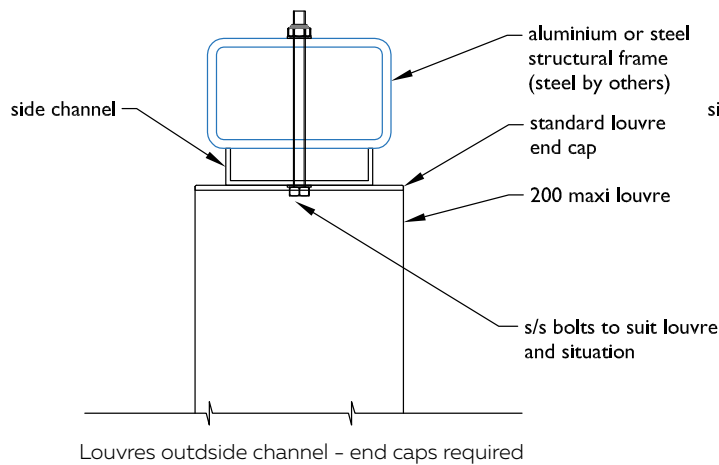
SECTION - END FIXED 180MM AIRFOIL LOUVRE



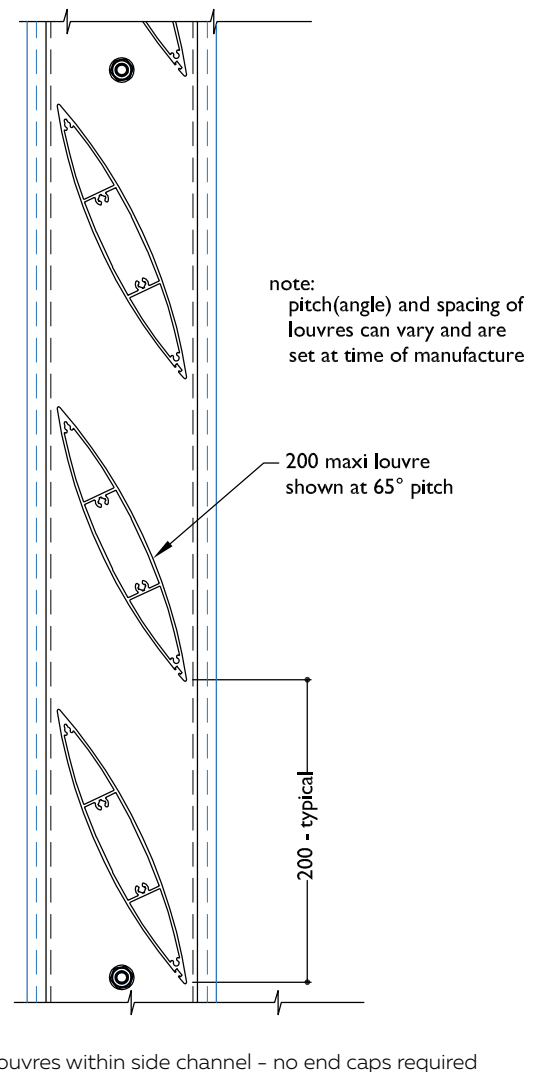
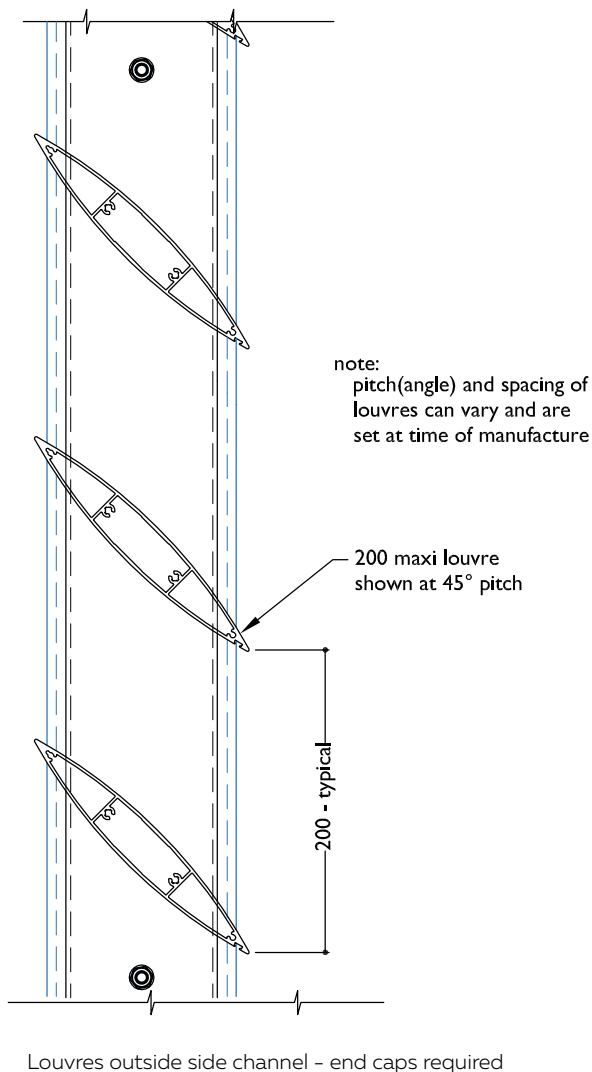
**TYPICAL DETAIL : END FIXED
200MM MAXI LOUVRES**

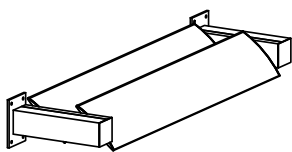
(GROUP 3 LOUVRES COLLECTION)

PLAN - END FIXED 200 MAXI LOUVRE



SECTION - END FIXED 200MM MAXI LOUVRE





FREE SPAN EXAMPLE

**CALCULATIONS FOR BLADE SPANS
SHOW RANGE FROM:**

Low Wind Zone 115km/h, 32m/s to

Extra High Wind Zone 198km/h, 55 m/s

Refer Engineering Details. Section 13

KEY

LF = Free span

LS15 = Strut @ 15°

LS30 = Strut @ 30°

LS45 = Strut @ 45°

Plain Column:

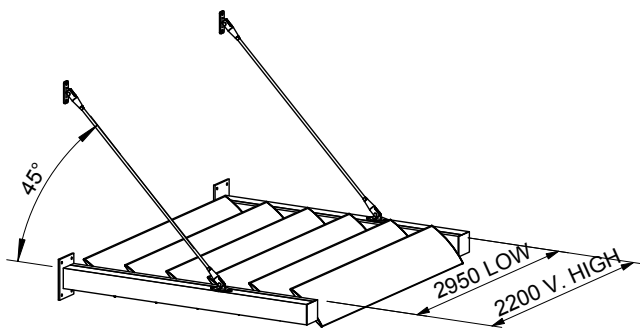
Low - Med Wind Zone.

Up to 133Km/h - 37m/s

Shaded Column:

High - VHigh Wind Zone.

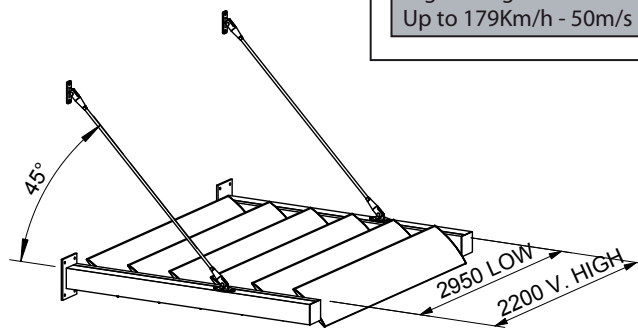
Up to 179Km/h - 50m/s



Ø20 SS STRUT SUPPORT EXAMPLE

Strut at optimum 45° angle

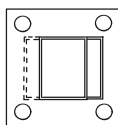
Spans, End Fixed 180mm Airfoil Louvre



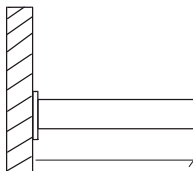
Ø42 SS STRUT SUPPORT EXAMPLE

Strut at optimum 45° angle

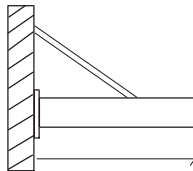
Spans, End Fixed 200mm Midi Louvre

**TYPICAL DETAIL: END FIXED OVERHEAD WALL STRUTS 180MM AIRFOIL | 200MM MAXI LOUVRES
SPANS AT A GLANCE (GROUP 3 LOUVRES COLLECTION)**


Base Plate: 100 x 150 x 6mm
Box Section: 75 x 50 x 2.5mm
Channel: 75 x 25 x 3mm

Free Span

LF	LF
500	500

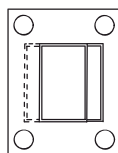
Strut Support

Strut Ø16mm
Stainless steel

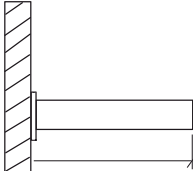
LS15	LS15
800	600

LS30	LS30
900	700

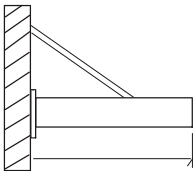
LS45	LS45
900	700



Base Plate: 100 x 225 x 6mm
Box Section: 100 x 50 x 3mm
Channel: 100 x 25 x 3mm

Free Span

LF	LF
700	600

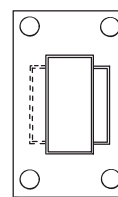
Strut Support

Strut Ø20mm
Stainless steel

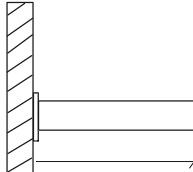
LS15	LS15
1000	800

LS30	LS30
1200	1000

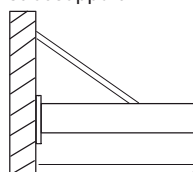
LS45	LS45
1200	1000



Base Plate: 100 x 275 x 6mm
Box Section: 150 x 50 x 3mm
Channel: 100 x 25 x 3mm

Free Span

LF	LF
1000	900

Strut Support

Strut Ø42mm
Stainless steel

LS15	LS15
1300	1100

LS30	LS30
1600	1300

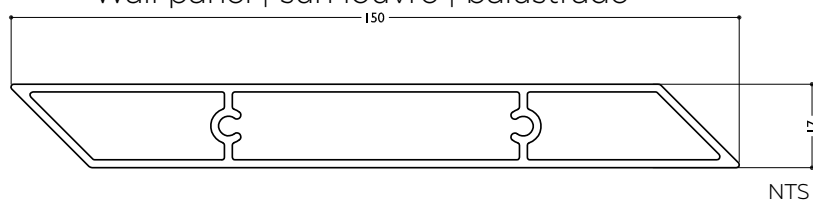
LS45	LS45
1600	1400

GROUP 4 LOUVRES

Weatherboard shaped louvres: 150mm Helena Bay, 125mm Weatherboard Panel, 180mm Weatherboard Panel

150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade



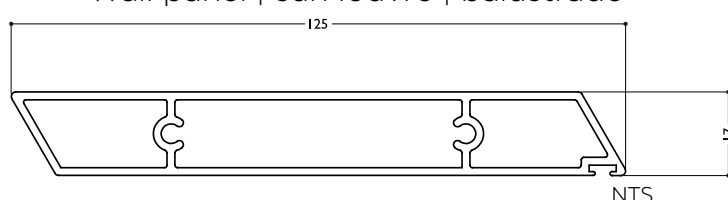
REFER TECHNICAL DETAILS PAGES 10.4.25



150MM HELENA BAY
45° FIXED

125MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade



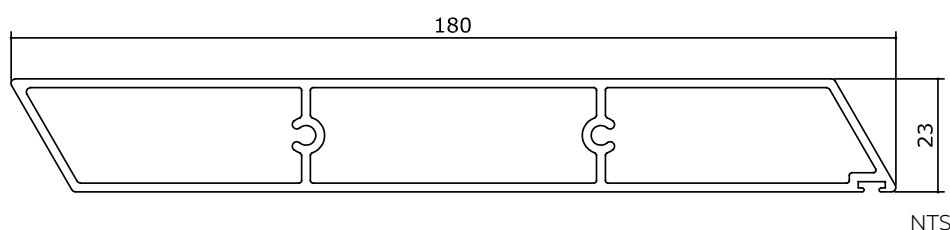
REFER TECHNICAL DETAILS PAGES 10.4.26



125MM WEATHERBOARD
PANEL

180MM WEATHERBOARD PANEL

Wall panel | sun louvre | balustrade



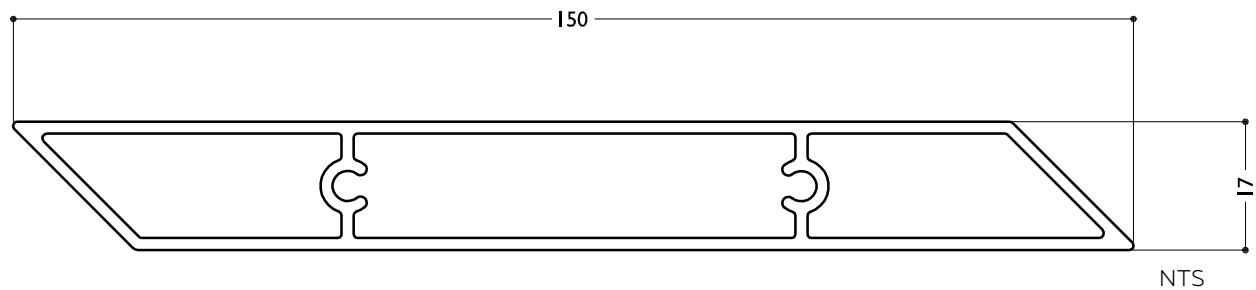
REFER TECHNICAL DETAILS PAGES 10.4.27



180MM WEATHERBOARD
PANEL



BLADE SPECIFICATIONS 150MM HELENA BAY 45° FIXED



BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY			
Blade cover - opening system	N/A	Weight per linear metre - opening system	1.5 kg/lm
Weight per square metre - opening system	N/A	Actual blade width	148 mm
Blade centres - opening system	N/A		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	3200	3050	2750	2400	2200	2050

INSTALLATION OPTIONS



END FIXED

Louvres at any pitch

Louvres at any centre



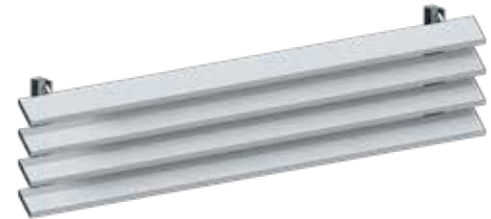
END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES



BRACKET FIXED

Louvres at any pitch

Louvres at any centre



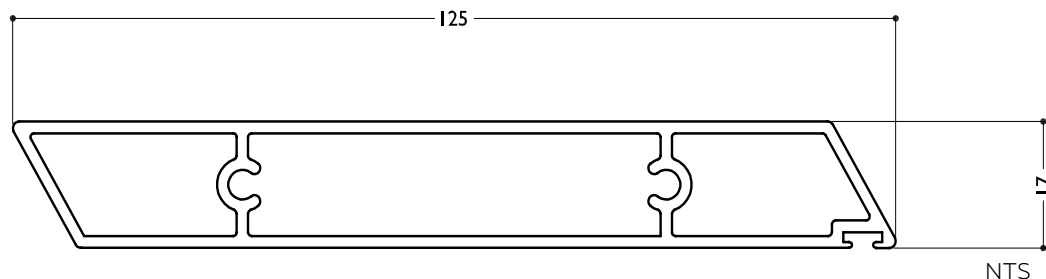
BRACKET FIXED VERTICAL PANEL - HORIZONTAL LOUVRES

SUN LOUVRES END FIXED
125MM WEATHERBOARD PANEL

(GROUP 4 LOUVRES COLLECTION)



BLADE SPECIFICATIONS 125MM WEATHERBOARD PANEL



BLADE SPECIFICATIONS			
Blade cover - opening system	115 mm	Weight per linear metre - opening system	1.33 kg/lm
Weight per square metre - opening system	12 kg/sqm	Actual blade width	125 mm
Blade centres - opening system	115 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	2600	2500	2300	2050	1900	1750

INSTALLATION OPTIONS



END FIXED

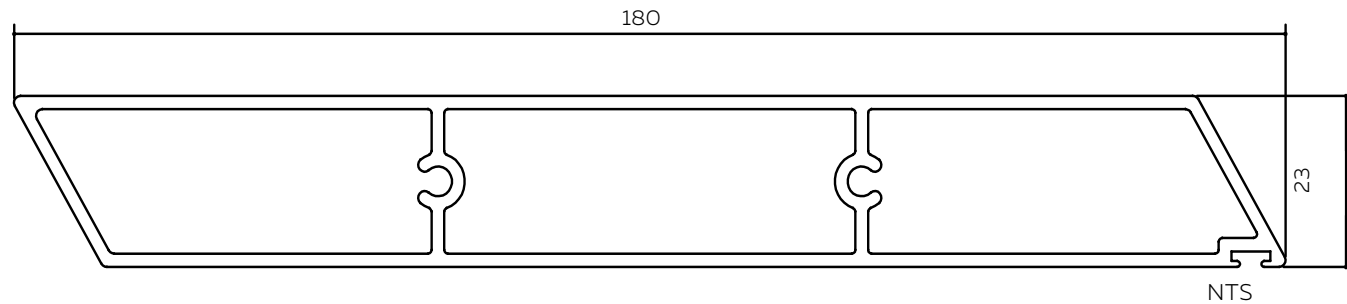
Louvres at any pitch
Louvres at any centre



END FIXED VERTICAL PANEL - HORIZONTAL LOUVRES



BLADE SPECIFICATIONS 180MM WEATHERBOARD PANEL



BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY			
Blade cover - opening system	169 mm	Weight per linear metre - opening system	2.12 kg/lm
Weight per square metre - opening system	13 kg/sqm	Actual blade width	180 mm
Blade centres - opening system	169 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

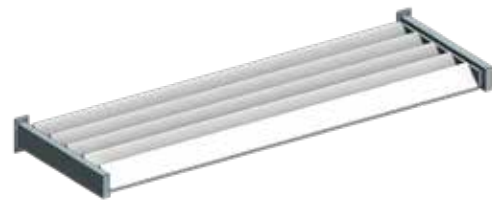
WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	3200	3050	2800	2500	2300	2100

INSTALLATION OPTIONS



END FIXED

- Louvres at any pitch
- Louvres at any centre



END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES

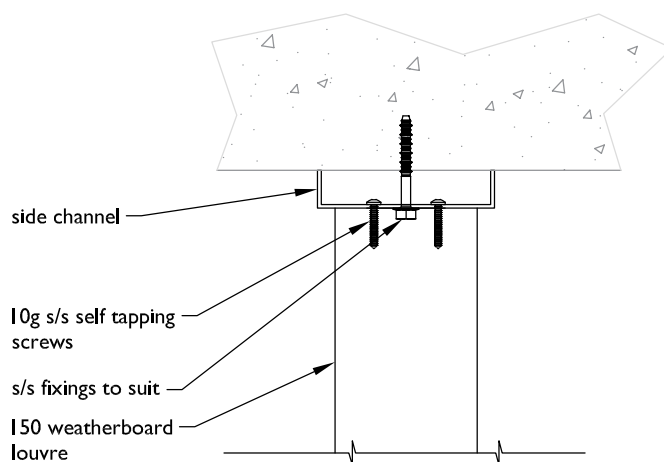
TYPICAL DETAIL : END FIXED

150MM HELENA BAY 45° FIXED WEATHERBOARD PANEL

(GROUP 4 LOUVRES COLLECTION)

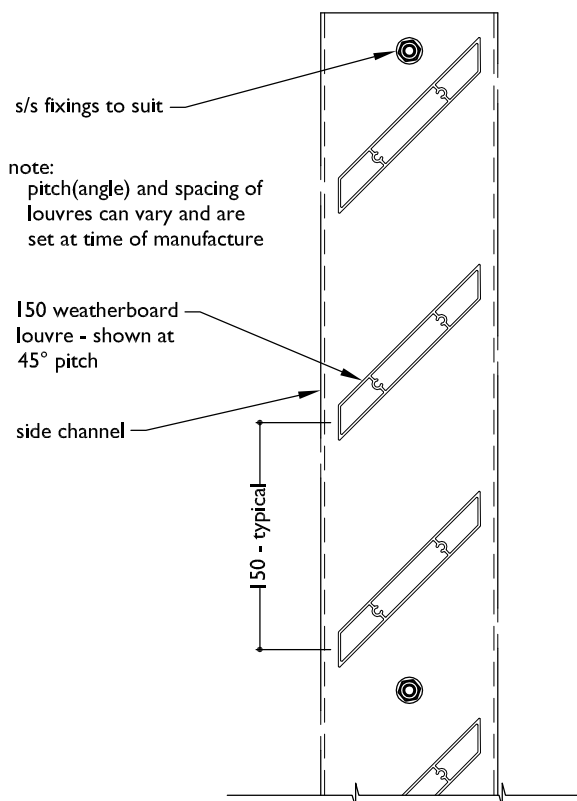
PLAN - END FIXED

150MM HELENA BAY 45° WEATHERBOARD PANEL

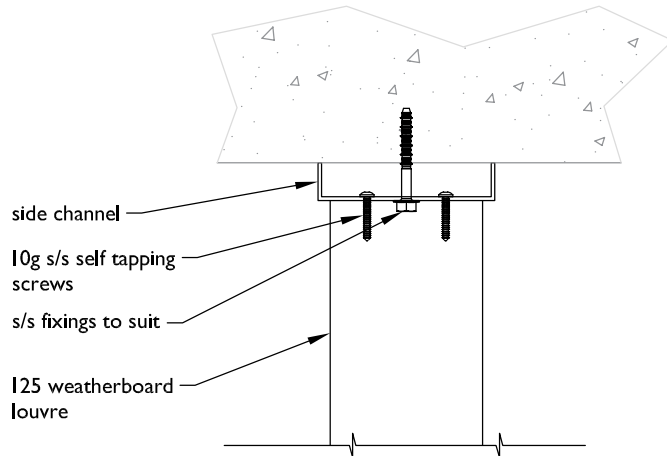


SECTION - END FIXED

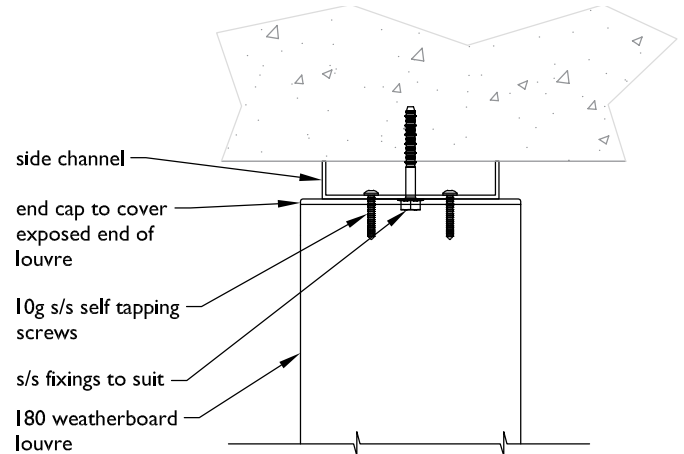
150MM HELENA BAY 45° WEATHERBOARD PANEL



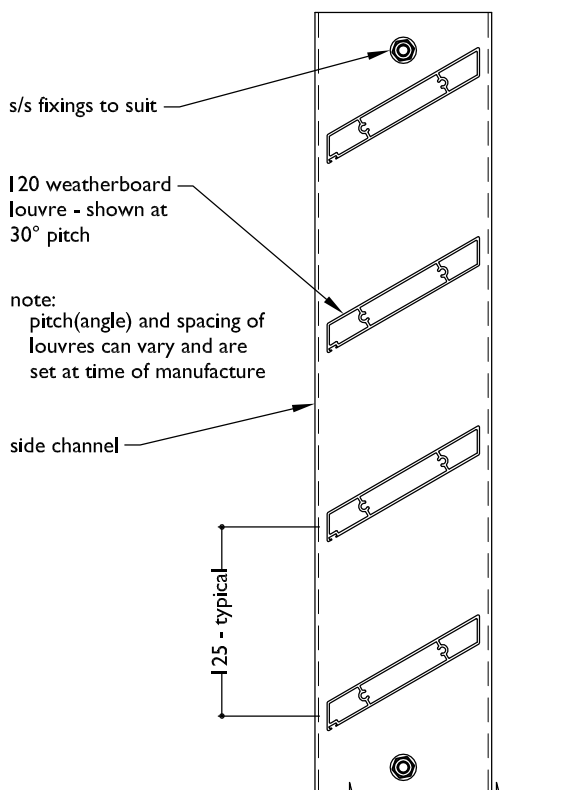
PLAN - END FIXED
 125MM WEATHERBOARD
 LOUVRE



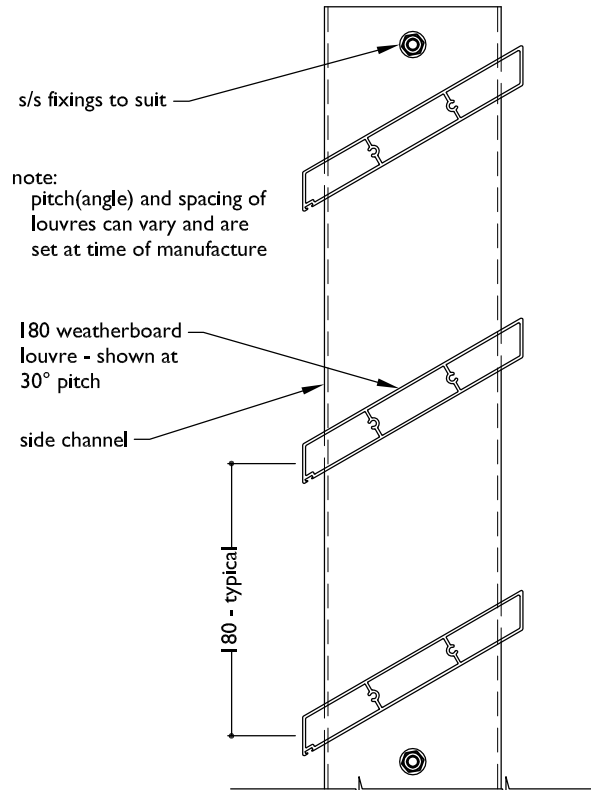
PLAN - END FIXED
 180MM WEATHERBOARD
 LOUVRE



SECTION - END FIXED
 125MM WEATHERBOARD
 LOUVRE

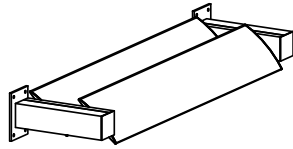


SECTION - END FIXED
 180MM WEATHERBOARD
 LOUVRE



TYPICAL DETAIL : END FIXED OVERHEAD SUN LOUVRES
150MM HELENA BAY 45°, 125MM WEATHERBOARD, 180MM WEATHERBOARD LOUVRES

(GROUP 4 LOUVRES COLLECTION)



FREE SPAN EXAMPLE

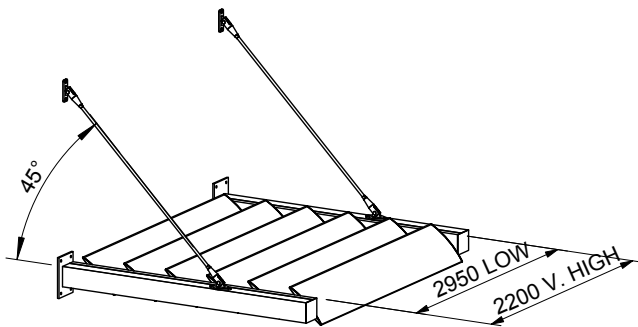
CALCULATIONS FOR BLADE SPANS
SHOW RANGE FROM:
 Low Wind Zone 115km/h, 32m/s to
 Extra High Wind Zone 198km/h, 55 m/s
 Refer Engineering Details. Section 13

KEY

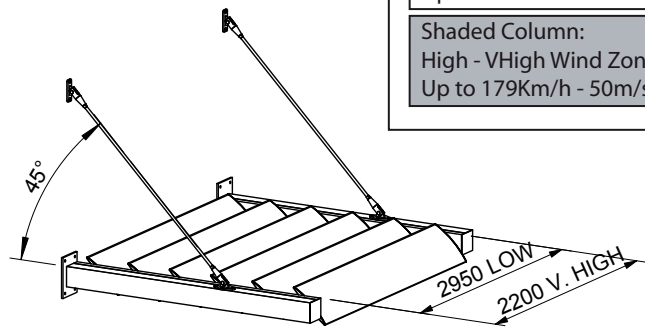
LF = Free span
 LS15 = Strut @ 15°
 LS30 = Strut @ 30°
 LS45 = Strut @ 45°

Plain Column:
 Low - Med Wind Zone.
 Up to 133Km/h - 37m/s

Shaded Column:
 High - VHigh Wind Zone.
 Up to 179Km/h - 50m/s



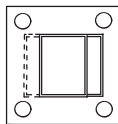
Ø20 SS STRUT SUPPORT EXAMPLE
 Strut at optimum 45° angle
 Spans, End Fixed 180mm Airfoil Louvre



Ø42 SS STRUT SUPPORT EXAMPLE
 Strut at optimum 45° angle
 Spans, End Fixed 200mm Midi Louvre

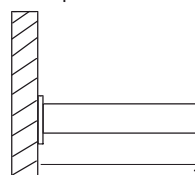
TYPICAL DETAIL : END FIXED OVERHEAD WALL STRUTS
150MM HELENA BAY, 125MM WEATHERBOARD & 180MM WEATHERBOARD

(GROUP 4 LOUVRES COLLECTION)



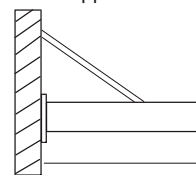
Base Plate: 100 x 150 x 6mm
 Box Section: 75 x 50 x 2.5mm
 Channel: 75 x 25 x 3mm

Free Span



LF	LF
500	500

Strut Support

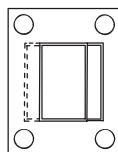


Strut Ø16mm
 Stainless steel

LS15	LS15
800	600

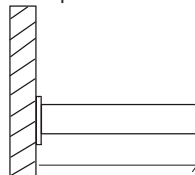
LS30	LS30
900	700

LS45	LS45
900	700



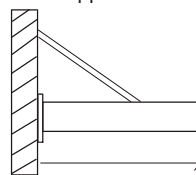
Base Plate: 100 x 225 x 6mm
 Box Section: 100 x 50 x 3mm
 Channel: 100 x 25 x 3mm

Free Span



LF	LF
700	600

Strut Support

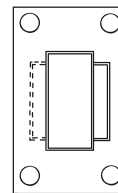


Strut Ø20mm
 Stainless steel

LS15	LS15
1000	800

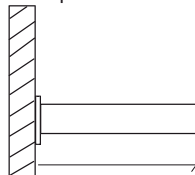
LS30	LS30
1200	1000

LS45	LS45
1200	1000



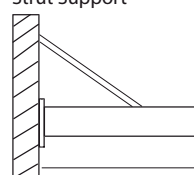
Base Plate: 100 x 275 x 6mm
 Box Section: 150 x 50 x 3mm
 Channel: 100 x 25 x 3mm

Free Span



LF	LF
1000	900

Strut Support



Strut Ø42mm
 Stainless steel

LS15	LS15
1300	1100

LS30	LS30
1600	1300

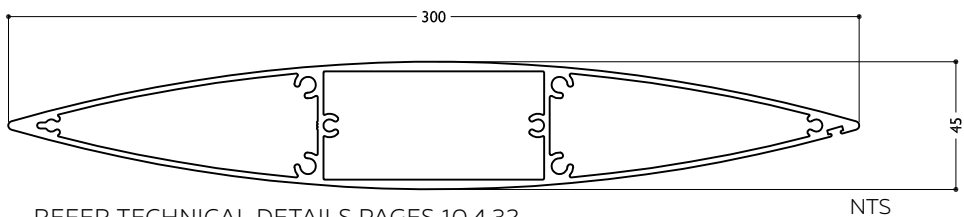
LS45	LS45
1600	1400

GROUP 5 LOUVRES

Maxi Louvres: 300mm Maxi Louvre, 600mm Maxi Louvre

300MM MAXI LOUVRE

Large Airfoil shaped louvre



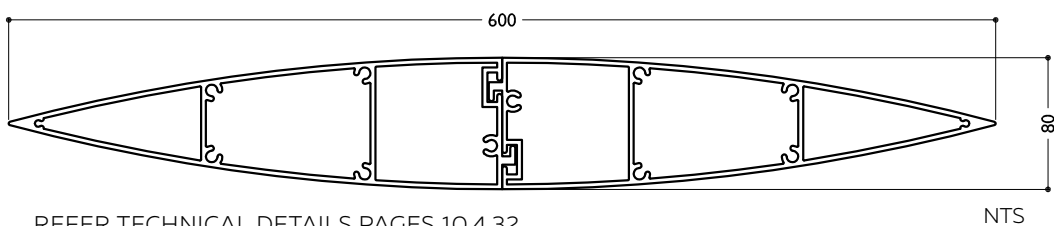
REFER TECHNICAL DETAILS PAGES 10.4.32

BLADE SPECIFICATIONS - END OR BRACKET FIXED ONLY



600MM MAXI LOUVRE

The largest Airfoil shaped louvre



REFER TECHNICAL DETAILS PAGES 10.4.32

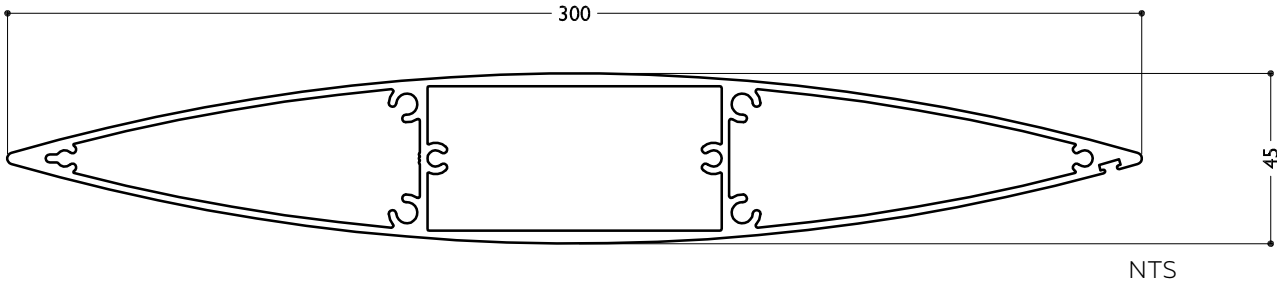


SUN LOUVRES END FIXED
300MM MAXI LOUVRE, 600MM MAXI LOUVRE

(GROUP 5 LOUVRES COLLECTION)



BLADE SPECIFICATIONS 300MM MAXI LOUVRE



BLADE SPECIFICATIONS			
Blade cover - opening system	288 mm	Weight per linear metre - opening system	5.66 kg/lm
Weight per square metre - opening system	19.64 kg/sqm	Actual blade width	300 mm
Blade centres - opening system	288 mm		

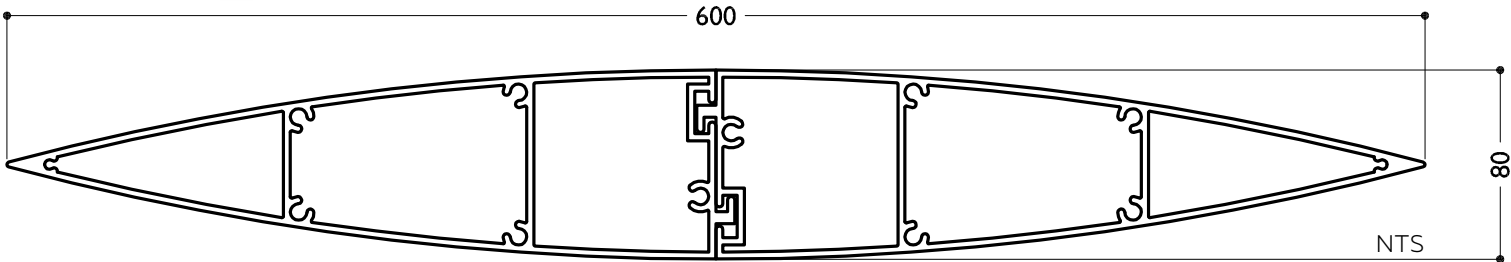
SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Adjustable & Fixed, Horizontal & Vertical	4800	4800	4800	4200	3700	3350



BLADE SPECIFICATIONS 600MM MAXI LOUVRE

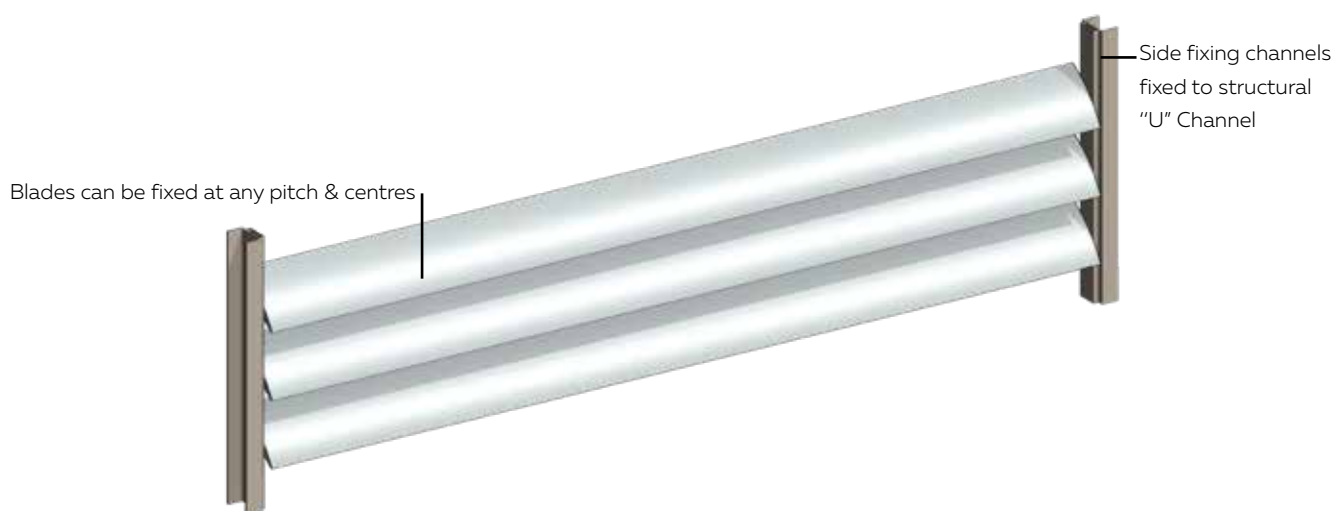


BLADE SPECIFICATIONS			
Blade cover - opening system	588 mm	Weight per linear metre - opening system	14.74 kg/lm
Weight per square metre - opening system	24.62 kg/sqm	Actual blade width	600 mm
Blade centres - opening system	588 mm		

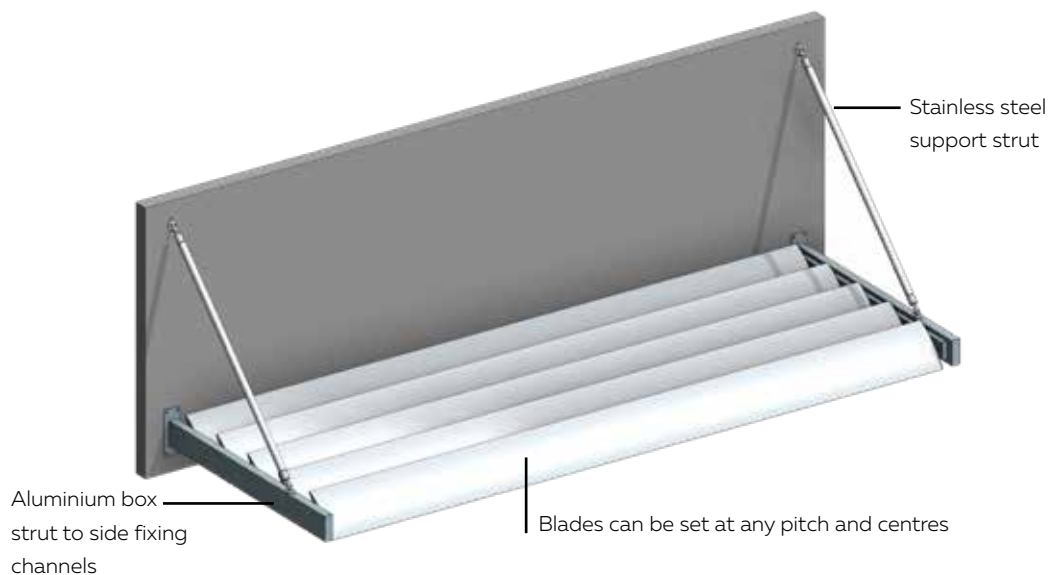
SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5600	4700	4100	3700



END FIXED VERTICAL PANEL - HORIZONTAL LOUVRES

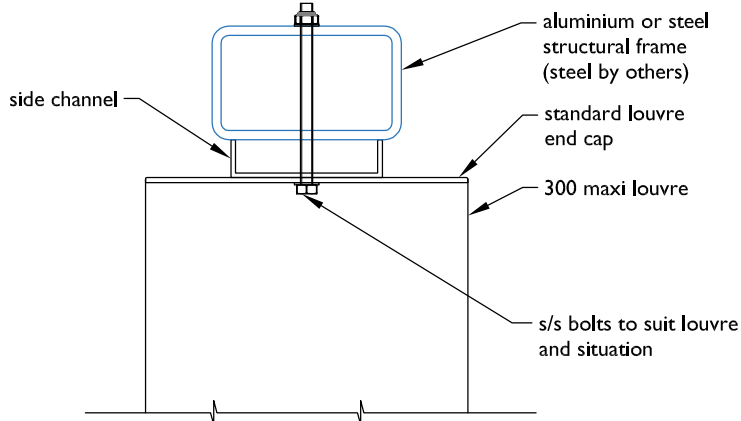


END FIXED OVERHEAD PANEL - HORIZONTAL LOUVRES

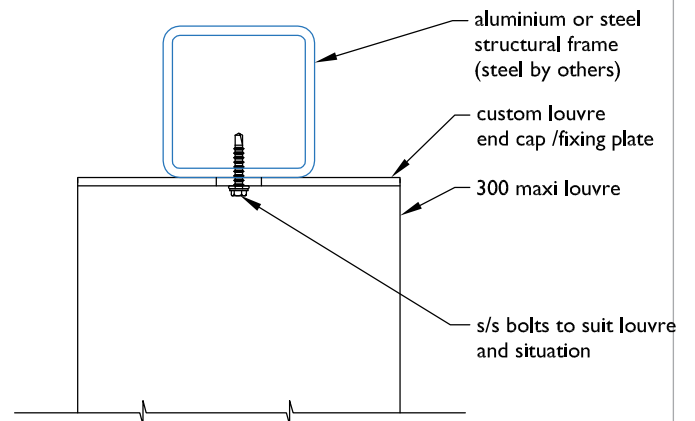
TYPICAL DETAIL : END FIXED SUN LOUVRES 300MM MAXI LOUVRES

(GROUP 5 LOUVRES COLLECTION)

PLAN END FIXED 300 MAXI LOUVRE

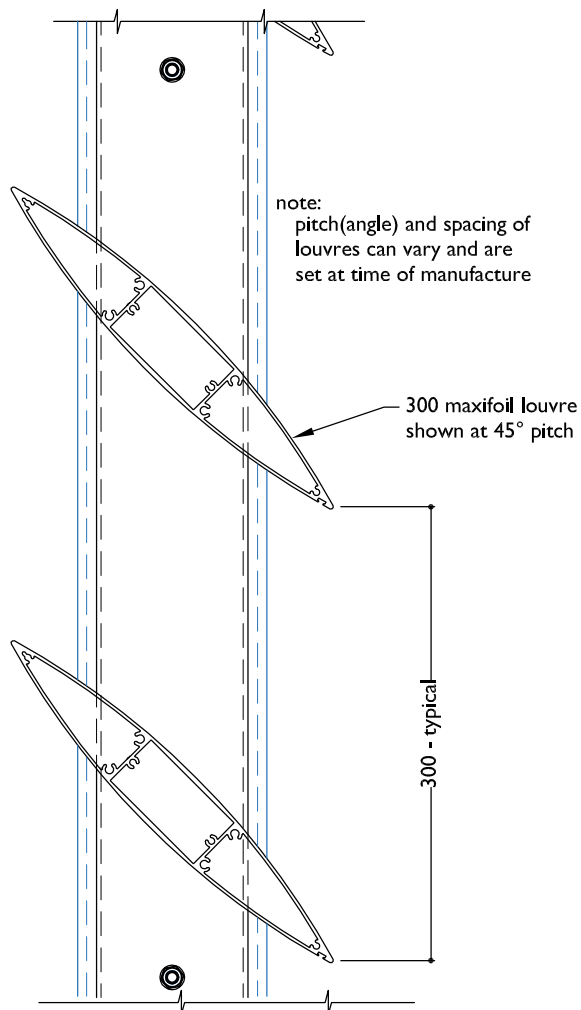


On side channel - end caps required

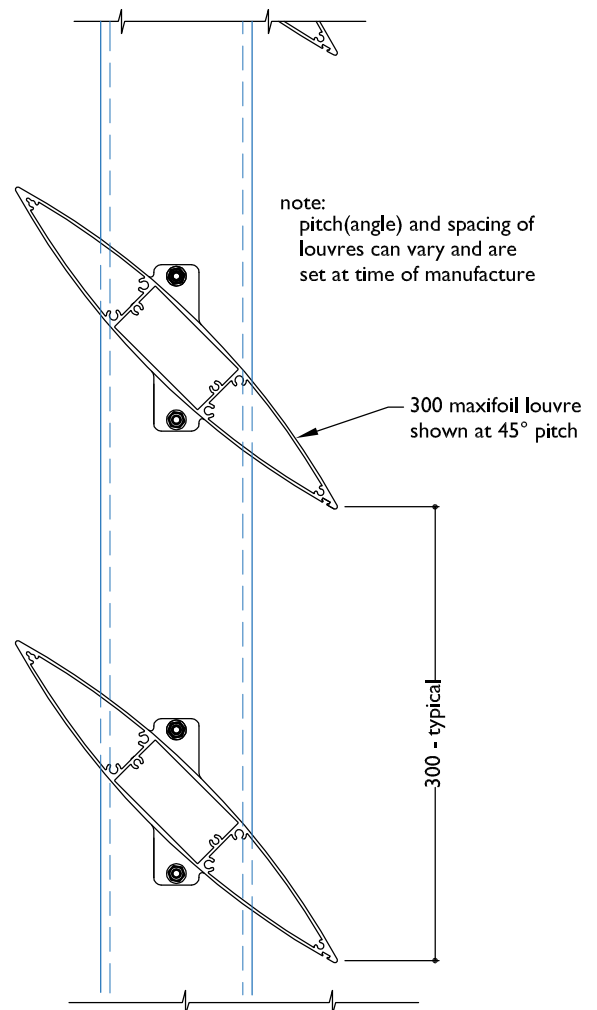


On side channel - no end caps required

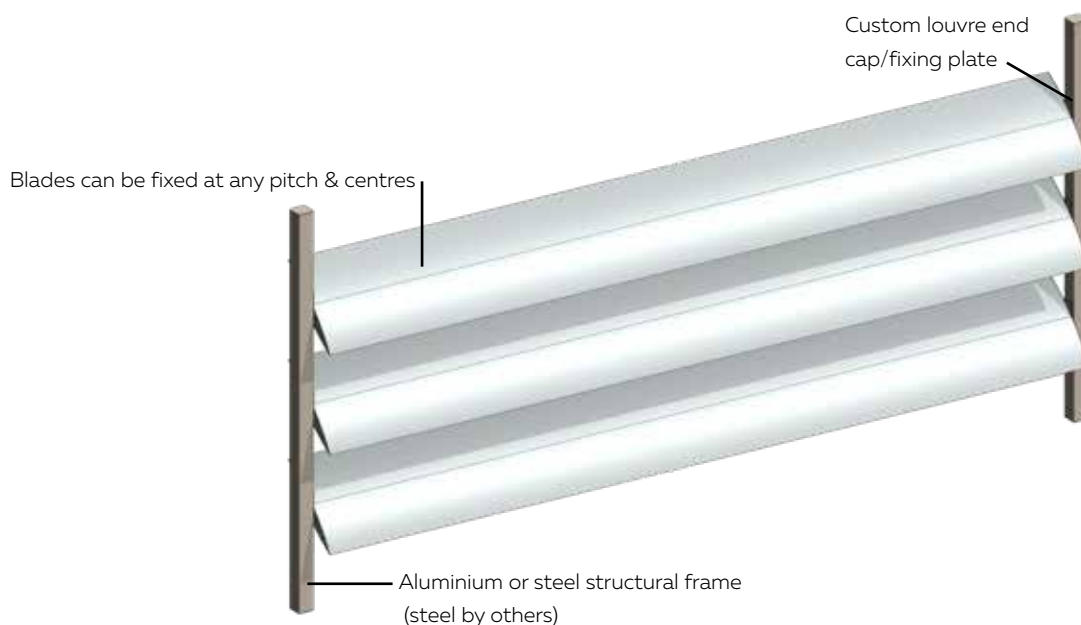
SECTION END FIXED 300MM MAXI LOUVRE



Louvres outside side channel - end caps required



Within side channel - no end caps required



END FIXED VERTICAL PANEL - HORIZONTAL 600MM MAXI LOUVRES

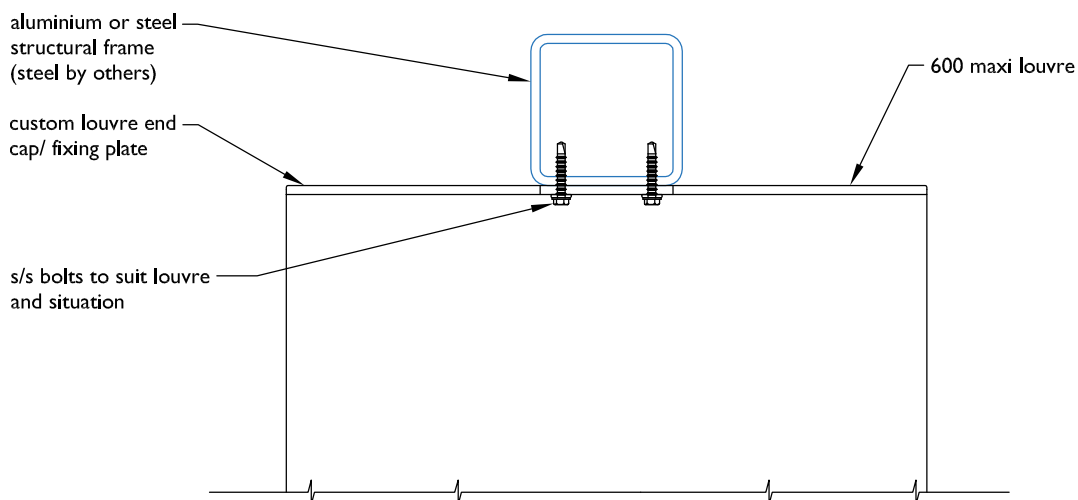


END FIXED VERTICAL PANEL - VERTICAL 600MM MAXI LOUVRES

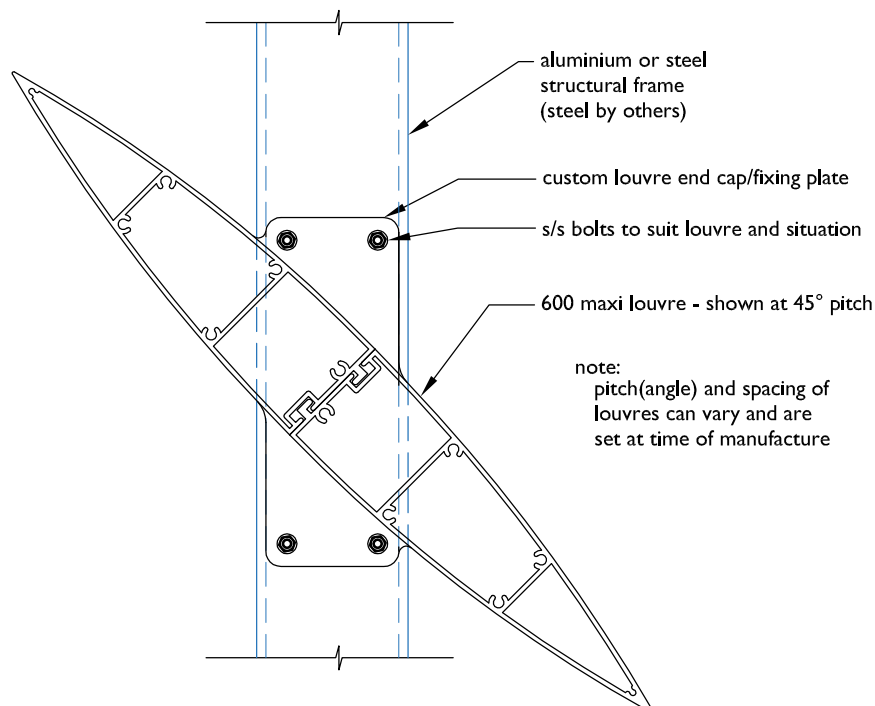
TYPICAL DETAIL : END FIXED SUN LOUVRES 600MM MAXI LOUVRES

(GROUP 5 LOUVRES COLLECTION)

PLAN END FIXED 600 MAXI LOUVRE



SECTION - END FIXED 600MM MAXI LOUVRE



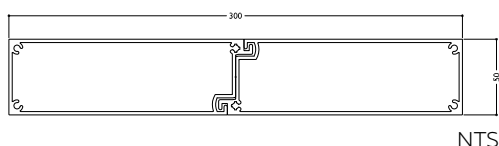


GROUP 6 LOUVRES

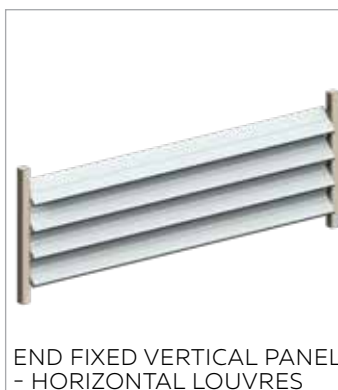
Rectangular RL300 SQUARE, RL450 SQUARE, RL 600 SQUARE

RL300 SQUARE LOUVRE

Rectangular in length with square corners



REFER TECHNICAL DETAILS
PAGES 10.4.40



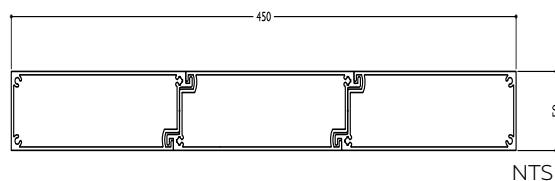
END FIXED VERTICAL PANEL
- HORIZONTAL LOUVRES



RL300 SQUARE LOUVRE

RL450 SQUARE LOUVRE

Rectangular in length with square corners



REFER TECHNICAL DETAILS
PAGES 10.4.41



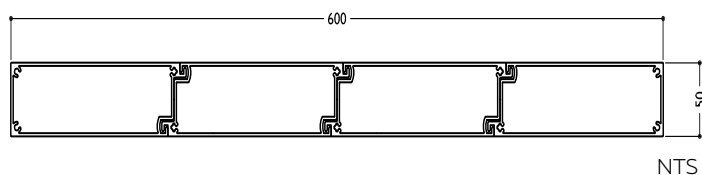
END FIXED
OVERHEAD PANEL
- HORIZONTAL LOUVRES



RL450 SQUARE LOUVRE

RL600 SQUARE LOUVRE

Rectangular in length with square corners



REFER TECHNICAL DETAILS
PAGES 10.4.42



END FIXED VERTICAL PANEL
- VERTICAL LOUVRES



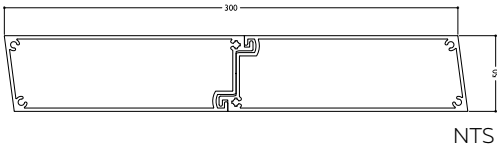
RL600 SQUARE LOUVRE

GROUP 6 LOUVRES

Rectangular RL300 MITRE, RL450 MITRE, RL600 MITRE

RL300 MITRE LOUVRE

Rectangular in length with mitred corners

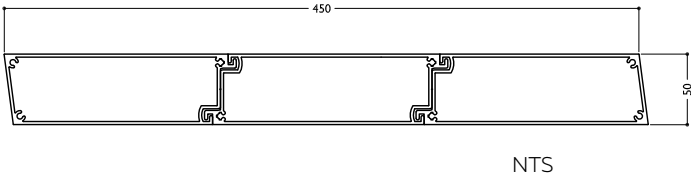


REFER TECHNICAL DETAILS
PAGES 10.4.40



RL450 MITRE LOUVRE

Rectangular in length with mitred corners

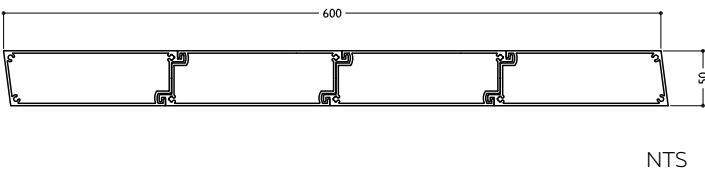


REFER TECHNICAL DETAILS
PAGES 10.4.41



RL600 MITRE LOUVRE

Rectangular in length with mitred corners



REFER TECHNICAL DETAILS
PAGES 10.4.42

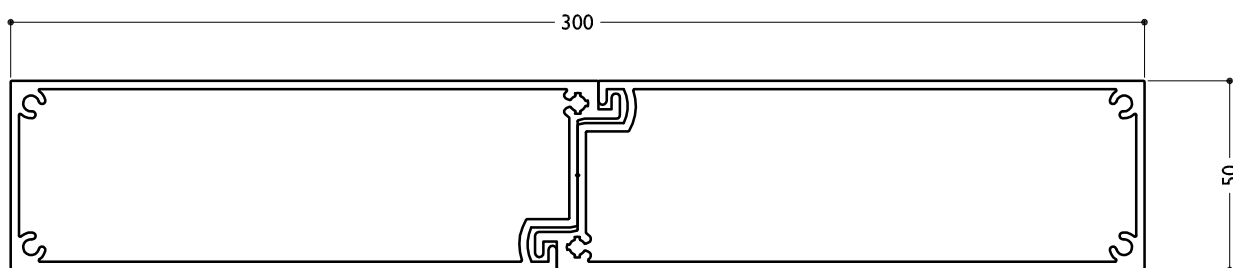


SUN LOUVRES END FIXED
RL300 SQUARE LOUVRE & RL300 MITRE LOUVRE

(GROUP 6 LOUVRES COLLECTION)

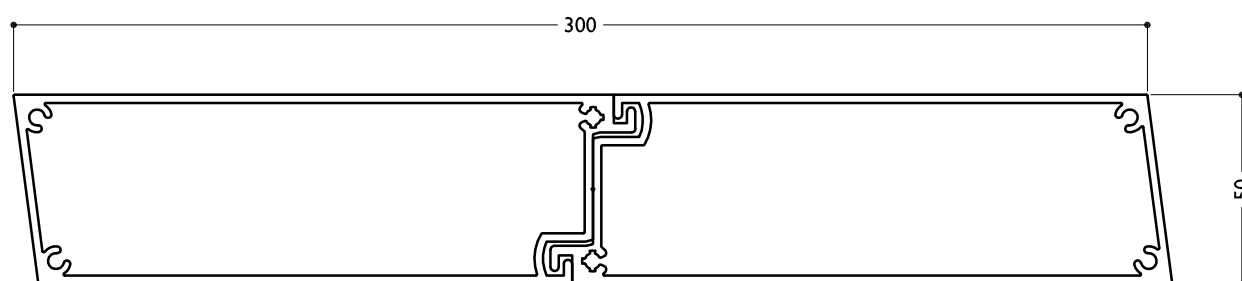


BLADE SPECIFICATIONS RL300 SQUARE & RL300 MITRE LOUVRES



RL300 SQUARE LOUVRE

NTS



RL300 MITRE LOUVRE

NTS

BLADE SPECIFICATIONS			
Blade cover - opening system	307 mm	Weight per linear metre - opening system	5.45 kg/lm
Weight per square metre - opening system	18.5 kg/sqm	Actual blade width	300 mm
Blade centres - opening system	307 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5800	5150	4500	4050

INSTALLATION OPTIONS



END FIXED

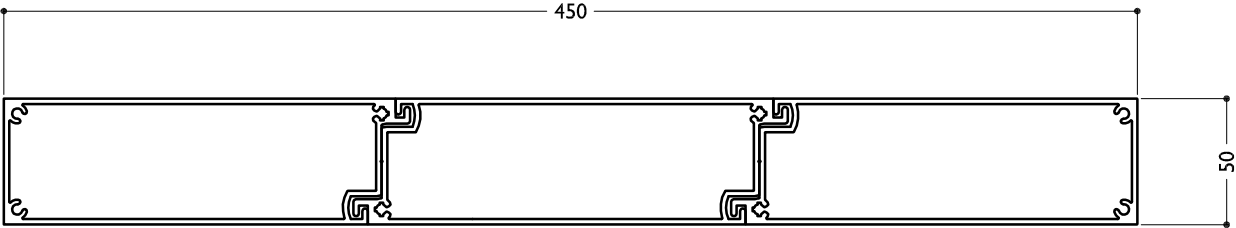
Louvres at any pitch
Louvres at any centre



BRACKET FIXED

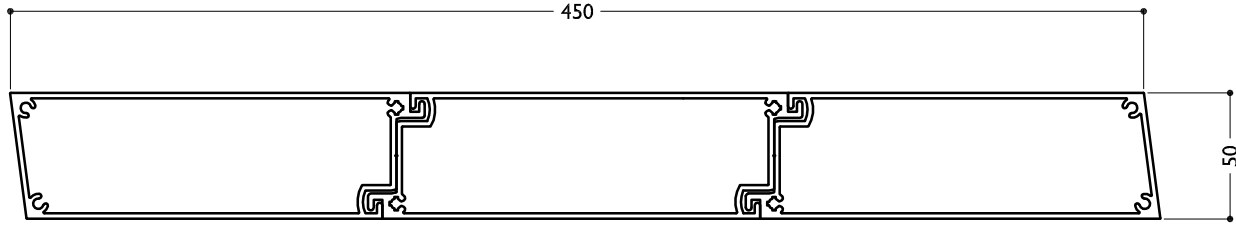
Louvres at any pitch
Louvres at any centre

BLADE SPECIFICATIONS RL450 SQUARE & RL450 MITRE LOUVRES



RL450 SQUARE LOUVRE

NTS



RL450 MITRE LOUVRE

NTS

BLADE SPECIFICATIONS			
Blade cover - opening system	457 mm	Weight per linear metre - opening system	8.27 kg/lm
Weight per square metre - opening system	18.5 sqm	Actual blade width	450 mm
Blade centres - opening system	457 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5800	5150	4500	4050

INSTALLATION OPTIONS



END FIXED
Louvres at any pitch
Louvres at any centre



BRACKET FIXED
Louvres at any pitch
Louvres at any centre

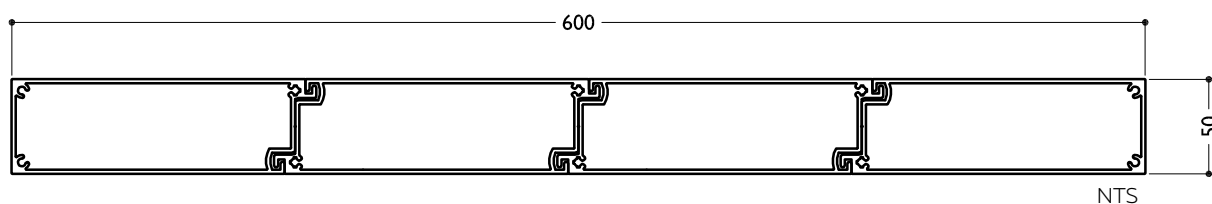
SUN LOUVRES END FIXED

RL600 SQUARE LOUVRE & RL600 MITRE LOUVRE

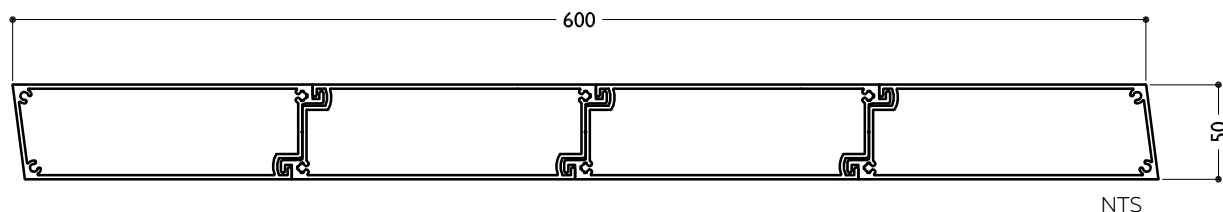
(GROUP 6 LOUVRES COLLECTION)



BLADE SPECIFICATIONS RL600 SQUARE & RL600 MITRE LOUVRES



RL600 SQUARE LOUVRE



RL600 MITRE LOUVRE

BLADE SPECIFICATIONS			
Blade cover - opening system	607 mm	Weight per linear metre - opening system	11.10 kg/lm
Weight per square metre - opening system	19.0 sqm	Actual blade width	600 mm
Blade centres - opening system	607 mm		

SPANS AT A GLANCE

Refer Engineering Section. Climate, terrain, shielding, location, type of structure contribute to determine spans.

WIND ZONE	INSIDE	LOW	MEDIUM	HIGH	VERY HIGH	EXTRA HIGH
Factored wind speed at building	Self wt	32 m/s 115 km/hr	37m/s 133 km/hr	44 m/s 158 km/hr	50 m/s 179 km/hr	55 m/s 198 km/hr
Fixed, Horizontal & Vertical	5800	5800	5800	5100	4500	4050

INSTALLATION OPTIONS



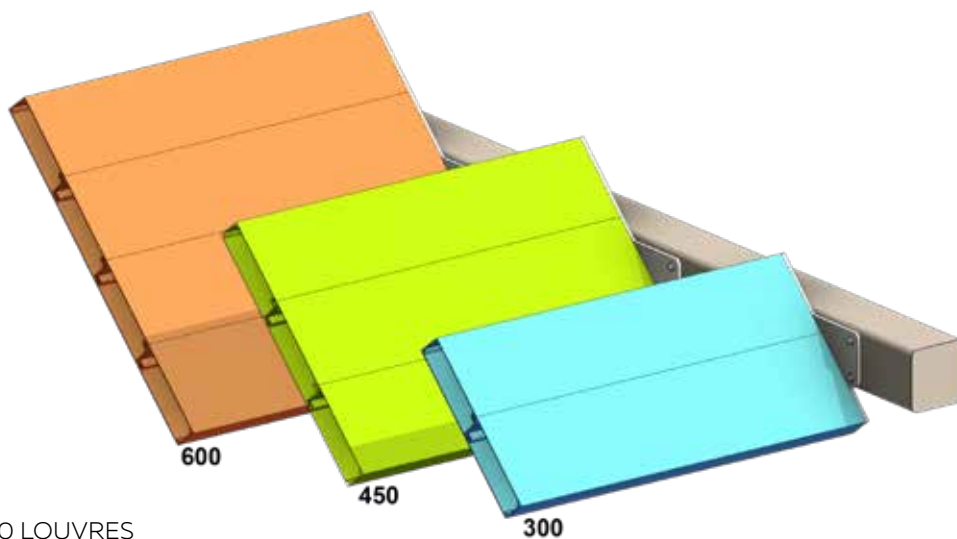
END FIXED

Louvres at any pitch
Louvres at any centre

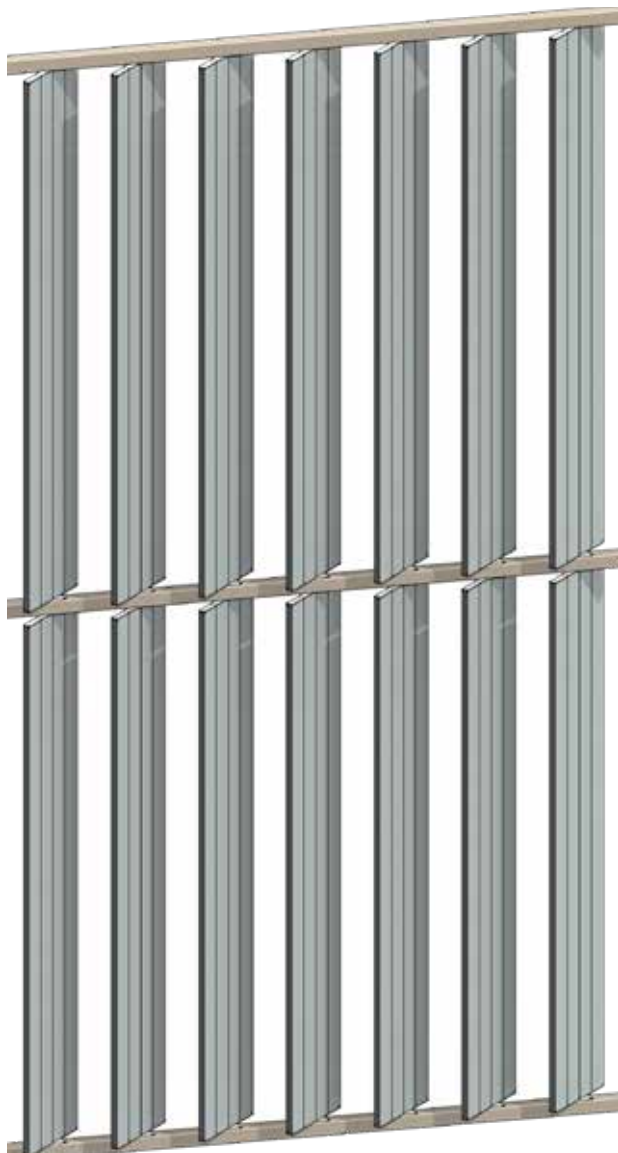


BRACKET FIXED

Louvres at any pitch
Louvres at any centre



RL 300, RL 450, RL600 LOUVRES



RL600 END FIXED LOUVRE PANEL



RL300 END FIXED LOUVRE PANEL, BRISBANE, QLD AU

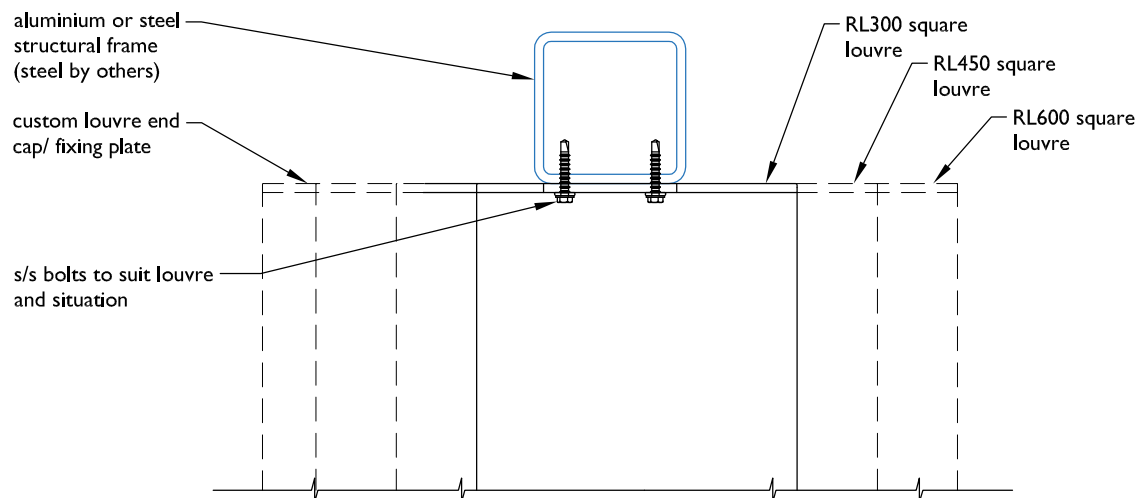
TYPICAL DETAIL: END FIXED

RL 300 SQUARE, RL 450, RL 600 SQUARE LOUVRES

(GROUP 6 LOUVRES COLLECTION)

PLAN END FIXED

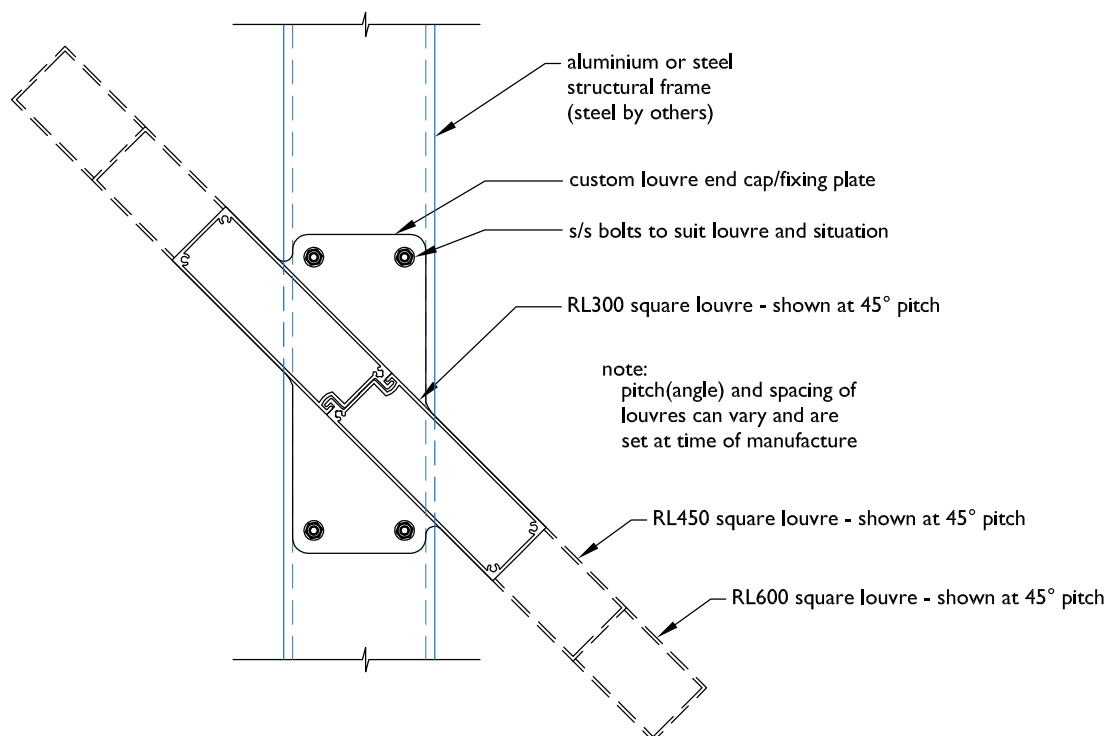
RL300 | RL450 | RL600 SQUARE LOUVRES

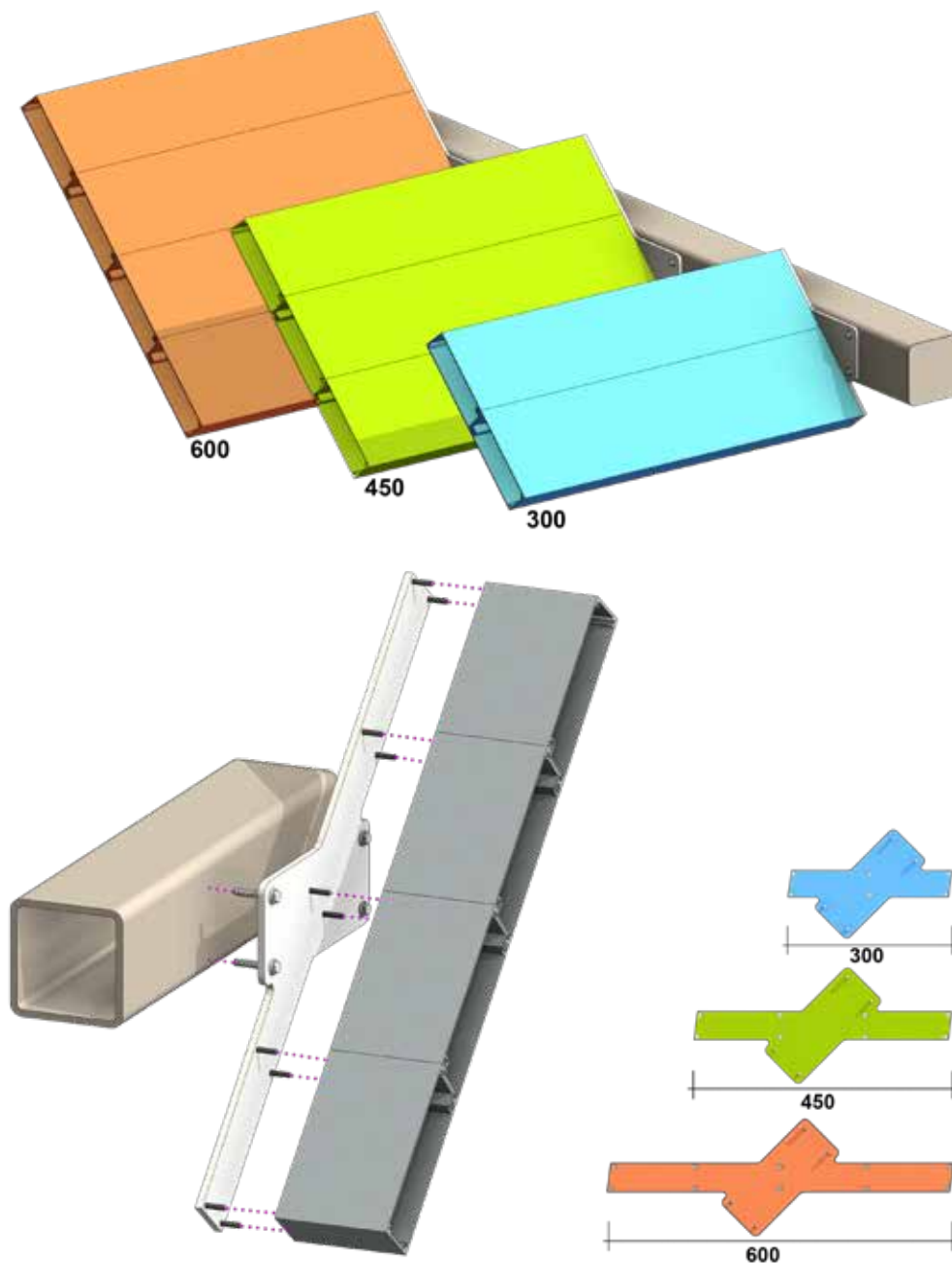


SECTION END FIXED

RL300 | RL450 | RL600 SQUARE LOUVRES

(GROUP 6 LOUVRES COLLECTION)

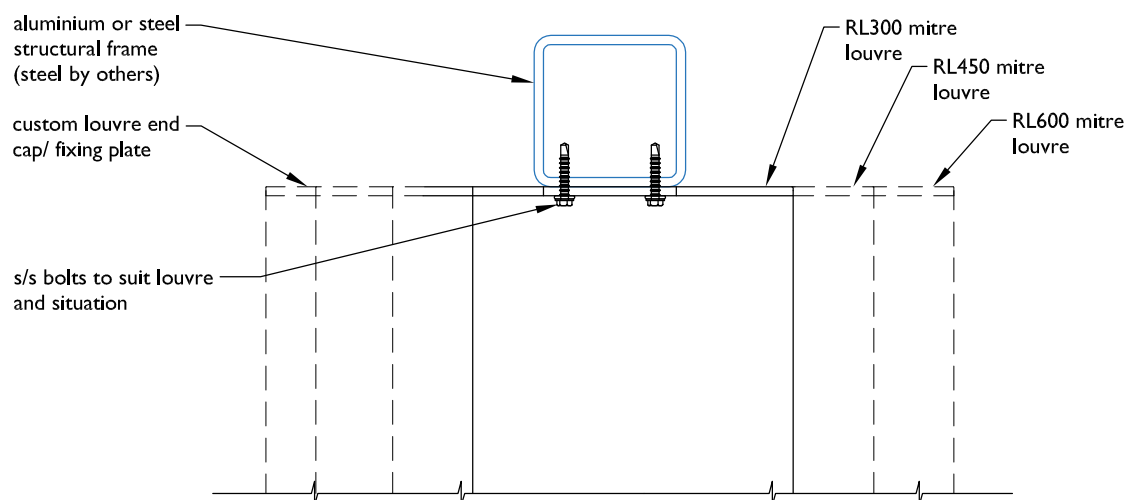




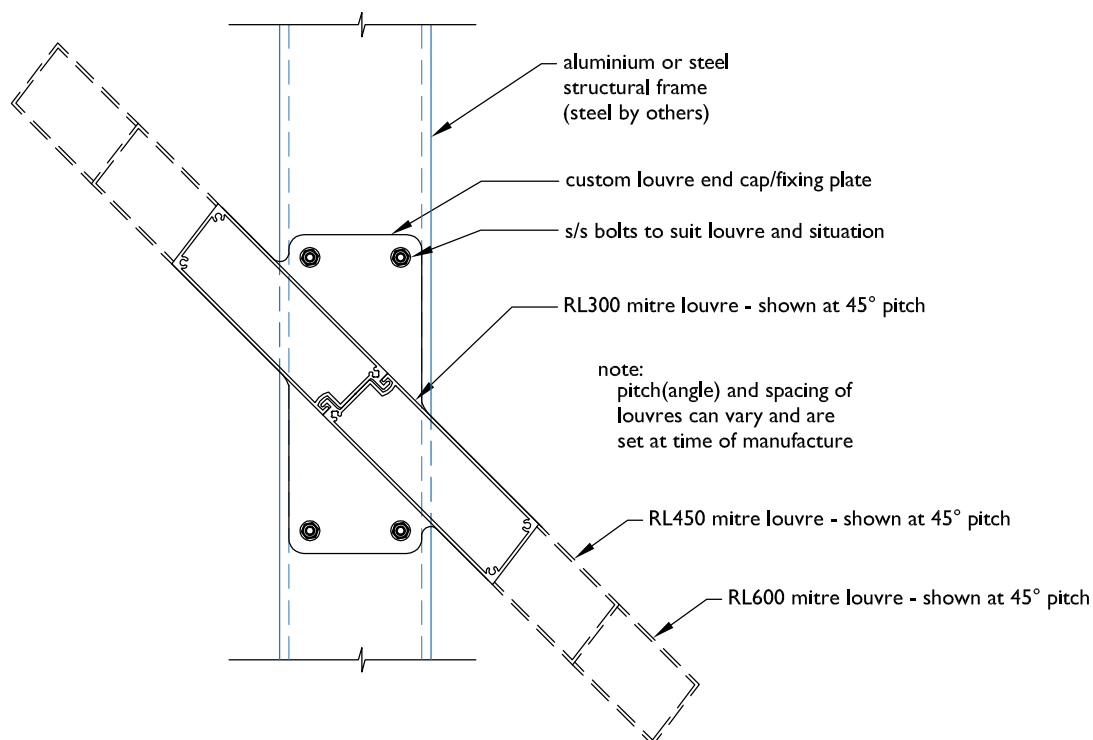
TYPICAL DETAIL: END FIXED
RL 300, RL 450, RL 600 MITRE LOUVRES

(GROUP 6 LOUVRES COLLECTION)

PLAN END FIXED
RL300 | RL450 | RL600 MITRE LOUVRES



SECTION END FIXED
RL300 | RL450 | RL600 MITRE LOUVRES





END FIXED CHIMNEY SURROUND, AUCKLAND

CHIMNEY SURROUNDS

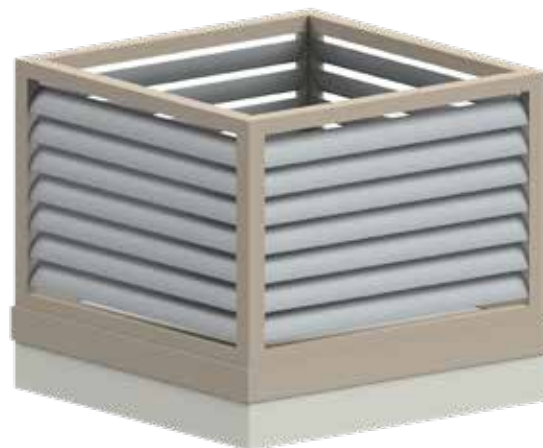
The cherry on top

There are many options available when designing louvre chimney surrounds. The actual shape or footprint of the surround is largely dictated by the chimney itself.

Determine what size louvre blade will be best suited, both aesthetically and functionally. Wind flow through the louvre blades can assist with the actual venting of the chimney. The surround's support structure can be a combination of aluminium box section, angle or channel. Please discuss with Louvretec.



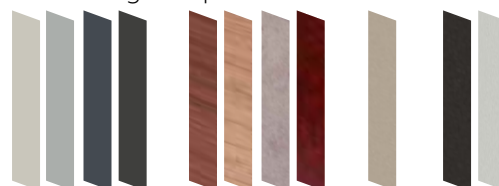
FINISHING TOUCH

END FIXED CHIMNEY SURROUND WITH
BOX SECTION FRAME

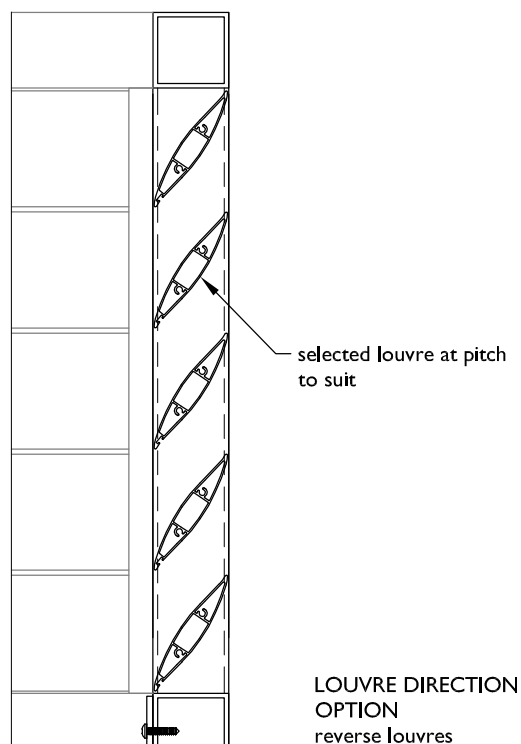
COASTAL LIVING

SURFACE FINISHING OPTIONS

A wide range of options are available.



TYPICAL DETAIL: END FIXED CHIMNEY SURROUND



SECTION- END FIXED LOUVRE CHIMNEY SURROUND

